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PERSONAL.

Mr. Joseph A. Latham has been elected Town Engineer of Auburn, R. I.

Mr. W. L. Edison, a son of Mr. Thomas A. Edison, has enlisted as a private in the First Regiment of United States Volunteer Engineers.

Mr. William Geist has been appointed Commissioner of Parks and Boulevards of Detroit, Mich., to succeed Mr. Carl Schweikert, resigned.

Mr. William S. Hays, consulting engineer and contractor, of Troy, Ohio, has transferred his business to the Hays Construction Co., which will continue the same, and will act as its manager.

Mr. W. F. Robertson, mining engineer, of McGill University, Montreal, Que., has been appointed Provincial Mineralogist of British Columbia, to succeed Mr. W. A. Carlyle, resigned.

Mr. William Hargadine Thomson, Jr., of St. Louis, Mo., who graduated last week from Cornell University as a mechanical engineer, has been appointed an engineer in the United States Navy.

Mr. John C. Moore, formerly with the Laidlaw-Dunn-Gordon Co., Cincinnati, O., has been appointed Chief Engineer of the water-works at Mansfield, O., to succeed Mr. Albert Coul, resigned.

Mr. Burton J. Ashley, hydraulic engineer of 1065 Old Colony Bldg., Chicago, Ill., will have his headquarters at Wellington, O., during the summer while superintending the construction of various plants in the latter state.

Mr. Irwin J. Macomber, Instructor in Electrical Engineering in Sibley College, Cornell University, Ithaca, N. Y., has been appointed Professor of Electrical Engineering in the Armour Institute of Technology, Chicago.

Mr. Timotheus Josenhaus, architect and civil engineer, has been appointed City Building Inspector of Seattle, Wash., by the Civil Service Board, he being the only applicant who passed the examination recently held in the city.

Mr. Henry Holgate, formerly Chief Engineer of the Northern Division of the Grand Trunk Ry. and lately of Montreal, Que., has been appointed Manager and Chief Engineer of the West India Electric Co., with headquarters at Kingston, Jamaica.

Mr. A. M. Young, General Manager of the Kings County Electric Light & Power Co., Brooklyn, New York city, and President of the New England Engineering Co., Waterbury, Conn., has been elected President of the National Electric Light Association.

Mr. E. J. Spencer, of Missouri, has been appointed Lieutenant-Colonel, and Lieut. Edgar Jadwin, Corps of Engineers, U. S. Army, has been appointed Major of the Third Regiment, United States Volunteer Engineers. Mr. David H. Gildersleeve, of Pennsylvania, has been appointed First Lieutenant of the Second Regiment of Engineers.

Mr. U. S. G. White, Civil Engineer, United States Navy, has been ordered to the New York Navy Yard to prepare himself for trial by court-martial on charges growing out of the recent trial of Mr. A. G. Menocal, M. Am. Soc. C. E., whose sentence was referred to in our issue of June 9. Mr. White was on duty at the dry dock in Brooklyn during the absence of Mr. Menocal and the inference is that he is partly responsible for the alleged defects. Mr. P. C. Asserson, M. Am. Soc. C. E., Civil Engineer, U. S. Navy, has been ordered from the navy yard, Norfolk, Va., to the Brooklyn yard, presumably to be placed in charge of the Engineering Department, which has been without a head since the removal of Mr. Menocal.

OBITUARY.

Mr. Purdy Green Sands, civil engineer, of Port Chester, N. Y., died June 14, aged 48.

Capt. Nelson Mackey, President of the Mackey Brick & Tile Co., of San Antonio, Tex., died June 8, aged 73.

Mr. Wolcott E. Newberry, mining engineer, of Colorado Springs, Colo., and son of the late Dr. John S. Newberry, Professor of Geology and Palaeontology of Columbia University, died in Newport, R. I., June 12, aged 36.

Mr. George Focht, proprietor of the George Focht Iron Works, Hoboken, N. J., died June 20. He was born in Eisenach, Germany, March 13, 1823, and came to this country in 1849, settling in Reading, Pa. He invented the Focht self-dumping coal bucket and established a plant in Reading for its manufacture. In 1866 he went to Hoboken where he established the Focht Iron Works.

Mr. F. A. Hermany, son of Mr. Charles Hermany, M. Am. Soc. C. E., Chief Engineer and Superintendent of Water-Works of Louisville, Ky., was drowned on June 18, at Troy, N. Y. He was a member of the junior class of the Rensselaer Polytechnic Institute.

Col. Henry Flad, Past President of the American Society of Civil Engineers, of St. Louis, Mo., died suddenly in Highland Park, Pittsburg, Pa., while out walking on June 20. He was born in Germany 74 years ago, and received his education in the College of Spire, Rhenish Bavaria, after which he took a two years' course in the School of Engineers of the University of Munich, graduating as a civil engineer in 1846. He was employed as an assistant engineer on the government improvements on the River Rhine and on other governmental public works until 1849, when he was elected Captain of a pioneer company in the revolutionary army of Baden. The revolution failed, and he was, with others, sentenced to death, but escaped to the United States. Here he obtained a position as a draftsman on the Western Division of the New York & Erie R. R., and was subsequently advanced to the position of Assistant Engineer on the Buffalo & New York City R. R. Next he became Resident Engineer on the construction of the Ohio & Mississippi R. R. In 1854 he was appointed Resident Engineer on the Mountain Division of the Iron Mountain R. R. In 1861, at the outbreak of the Civil War, he enlisted in the Third Missouri Reserve Regiment, but was soon afterwards made Captain in the Engineer Regiment of the West, and by the end of the war he had attained the rank of Colonel of Engineers. He then settled in St. Louis, Mo., and became Chief Assistant to the late James P. Kirkwood, M. Am. Soc. C. E., the well-known hydraulic engineer. In 1867 Col. Flad was appointed a Water Commissioner of St. Louis, and served in that capacity until June 1, 1875. He was Chief Assistant Engineer under Capt. Jas. P. Eads on the construction of the St. Louis bridge over the Mississippi River from 1867 to 1874. In 1877 he was elected President of the Board of Public Improvements of St. Louis, and held the position for many years. For several years past he has been a member, and one of the most active, of the Mississippi River Commission. Only last week he attended the annual meeting of the Commission in New York city. Mr. Flad was elected a member of the American Society of Civil Engineers on Feb. 15, 1871, and was the President of that Society in 1886. A portrait and biography of Mr. Flad were published in Engineering News of July 3, 1886.

ENGINEERING SOCIETIES.

COMING TECHNICAL MEETINGS.

INDIANAPOLIS ENGINEERING CLUB.
June 25. Secy., Edson F. Folsom, Indianapolis, Ind.
ST. LOUIS RAILWAY CLUB.
June 25. Secy., H. H. Roberts, 511 Commercial Bldg., St. Louis, Mo.
AMERICAN SOCIETY OF CIVIL ENGINEERS.
July 26-29. Annual Meeting, Detroit, Mich. Secy., C. W. Hunt, 220 W. 57th St., New York city.
AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS.
June 27-30. Summer meeting, Omaha, Neb. Secy., R. W. Pope, 26 Cortlandt St., New York city.
CANADIAN ELECTRICAL ASSOCIATION.
June 28-30. Annual convention, Montreal. Secy., C. H. Mortimer, Confederation Bldg., Toronto, Can.
WESTERN SOCIETY OF ENGINEERS.
July 6. "Establishment of Street Grades," Chas P. Chase. Secy., N. L. Litten, Monadnock Block, Chicago, Ill.
INTERNATIONAL MINING CONGRESS.
July 6-9. At Salt Lake City. Secy., W. D. Johnson, Salt Lake City, Utah.
CIVIL ENGINEERS' CLUB OF CLEVELAND.
July 12. Secy., Wm. H. Searles, Case Library Bldg., Cleveland, O.
AMERICAN SOCIETY OF R. R. SUPERINTENDENTS.
July 13-14. Annual meeting, Alexandria Bay, N.Y. Secy., C. A. Hammond, Asbury Park, N. J.
ENGINEERS' CLUB OF MINNEAPOLIS.
July 18. Secy., H. E. Smith, 1620 S. E. 4th St., Minneapolis, Minn.
ENGINEERS' SOCIETY OF WESTERN PENNSYLVANIA.
July 19. Secy., R. A. Fessenden, 410 Penn Ave., Pittsburg, Pa.

THE AMERICAN SOCIETY OF CIVIL ENGINEERS.—The 30th Annual Convention of this Society will be held in Detroit on July 26-29, with headquarters at the Fellowcraft Club House. Hotel rates have been arranged, varying from $2.50 to $3.50 per day, and arrangements are being made for the usual railway rates. Besides the papers and routine business there will be excursions on the Detroit River, about the city, to the Port Huron tunnel, etc. Mr. George Y. Wisner is the Chairman of the Local Committee, as well as being one of the Directors of the Society. The full program for the Convention can be obtained by addressing Mr. Chas. W. Hunt, Secy. Am. Soc. C. E., West 57th St., New York city.

LOUISIANA ENGINEERING SOCIETY.—A regular meeting of this society was held June 13. The paper of the evening was postponed to give the author an opportunity to complete it. The question of State regulation of the profession of civil engineering was taken up, and after considerable discussion the society refused to either approve or disapprove of the idea. After adjournment a caucus was held, at which it was decided to favor State regulation, and a committee was appointed to prepare an act to this effect, eliminating all mention of the Louisiana Engineering Society, as otherwise it would have a tendency to bring politics into the deliberations of the society. The proposed act will be prepared and presented to the legislature in the near future.

AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS.—The 15th general meeting of the Institute will be held at Millard Hotel, Omaha, Neb., June 27-30. The following is a preliminary programme: "Inaugural Address," by the President, Dr. A. E. Kennelly, Philadelphia; "The Dielectric Strength of Air," C. P. Steinmetz, Schenectady, N. Y.; "Two-Wire Distributing Systems and Lamps at 220-240 Volts," John W. Howell, Newark, N. J.; "A Capillary Electrometer for Electrical Measurements," Chas. F. Burgess, Madison, Wis.; "Alternating Current Transformers from the Station Manager's Viewpoint," W. F. White, Omaha, Neb.; "The Graphical Treatment of Alternating Currents in Branching Circuits, with Special Reference to the Case of Variable Frequency," Dr. H. T. Eddy, Minneapolis, Minn.; "Some Phases of the Rapid Transit Problem," Albert H. Armstrong, Schenectady, N. Y.; "The Evolution of the Line Signal," Arthur V. Abbott, Chicago; "The Commutated Curve of a Composite-wound Alternator," D. C. Jackson, Madison, Wis.; "Alternate Current Working for Laboratory and Testing Purposes," Harris J. Ryan, Ithaca, N. Y.; "High Voltage Power Transmission," Charles F. Scott, Pittsburg, Pa.; "Preliminary Report of Committee on Standardization," Dr. Francis B. Crocker, Chairman; "Transmission and Distribution of Power for Railway Service," Ernst J. Berg, Schenectady, N. Y.; "The Education of Electrical Apprentices and Journeymen," Arthur A. Hamerschlag, New York city; "Air Gap and Core Distribution—The Magnetic Flux and Its Effect upon Regulation and Efficiency of Dynamo Electric Machinery," W. E. Goldsborough, Lafayette, Ind.; "The Imperial Electric Light Heat and Power Plant of St. Louis," George A. Damon, Chicago; "Some Tests with an Induction Generator," A. F. McKissick, Auburn, Ala.

NORTHWESTERN ELECTRICAL ASSOCIATION.—The magnificent lake steamer "Northwest" arrived at Duluth, Minn., the morning of June 14 with a party of 132, composed of members of the association and their friends. The trip from Chicago occupied four days, and proved a most enjoyable experience. A warm welcome was extended to the visiting electrical people at all of the stopping places, and especially at Duluth, where preparations had been made for the summer convention. After leaving Milwaukee a preliminary meeting was held on the steamer, at which the programme was arranged and various announcements were made by the secretary and others. The morning of June 11 was given up to the consideration of a paper entitled "Incandescent Lamps," by S. Everett Doane, Marlboro, Mass., and the answering of questions. In answer to "What success has been realized in substituting incandescent lamps in place of wire resistance in direct current enclosed arc lamps?" several stated that they had obtained good results. The incandescent lamps are placed wherever desirable within a radius of 60 ft. and wires lead to and from the lamp. In this way there is practically no waste of power in the lamp and removal of the heated resistance coils gives a better regulation and more satisfactory working of the lamp. The next paper, "Mechanical Draft," by Mr. Walter B. Snow, was read by Mr. Cross. Mr. Dow, of Midland, Mich., read a paper entitled "Purification of Water," while Mr. A. J. Wurts, of Pittsburg, concluded the boat session with an address on "Lightning Arresters."

At the Duluth meeting a paper by Mr. Wm. S. Horry, "Electric Smelting of Ores," was presented. This was followed by a discussion upon the advisability of grounding the neutral of a three-wire system. Prof. Elisha Gray and Prof. Ichisuke Fujioka, of Tokio, Japan, were introduced and made brief addresses.

The reception accorded the Association at Sault Ste. Marie was most hearty, the time being occupied in speechmaking and visiting the many points of interest. The manufacture of copper wire was witnessed at the Dollar Bay Wire Works, the process of copper smelting at the Calumet and Hecla furnaces, the great crushing mills of the Tamarac Co., and the immense mining plant of the Calumet and Hecla Co. at Calumet, were among the points of interest visited. The entire party then returned to the steamer which made no further stop until Duluth was reached, where, as already stated, the remaining business was transacted and the hospitality of the city enjoyed. At noon Wednesday the Association boarded the train for Minneapolis, where more dining and wining was the order of the day. Coaches were provided, which enabled all to inspect the city and its parks until time to leave for Chicago when the journey was concluded.

NEW PUBLICATIONS.

REPORT OF THE FIRE MARSHAL OF CHICAGO FOR THE YEAR 1897.—D. J. Swenie, Fire Marshal. Paper; 8vo.; pp. 156.

The report is for the year ending Dec. 31, 1897, and gives detailed statistics of the force and equipment of the Fire Department, with details of the fires and fire losses. Of the 5,326 fires, 802 were due to ill use of gas and gasoline, and 115 to electric wires and lights. Most of the latter were caused by the grounding of high-tension conductors, and only one of these fires was serious. The expenditures of the department were $1,532,781, or 88 cts. per capita.

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3 1-2 x 6 ins.; 6 x 9 ins., and 9 x 12 ins.)

PROTECTION IN FACT.—Westinghouse Electric & Manufacturing Co., Pittsburg, Pa. Pamph.; 6⅝ × 3⅝ ins.

This is a small but neatly gotten up pamphlet, illustrating several forms of lightning arresters, each intended to meet special conditions.

FIND ME A MONTH FROM TO-DAY IF YOU CAN.—Folding Paper Box Co., South Bend, Ind.

A small pamphlet calling attention to a filing case, known as the Brownfield-Buyers System, which is intended for filing catalogues, trade sheets or newspaper clippings.

CABLE-TESTING APPARATUS.—Queen & Co., Inc., Philadelphia, Pa. Pamph.; 6¾ × 10 ins.; pp. 40; illustrated.

This is a pamphlet issued to call attention to special apparatus and instruments manufactured by Queen & Co. for testing resistance of conductor, insulation and other properties of electric cables, either submarine or underground.

STORED-STEAM MOTORS.—Kinetic Mfg. Co., 27 William St., New York, and the International Construction Co., Detroit, Mich.

The "Kinetic" motor, on the Dodge system, is intended for street railway service. Under the car is a horizontal boiler, which is charged with water at 200 lbs. pressure and 380° F. temperature from a stationary boiler, and has a small firebox charged with incandescent coal. A pipe condenser is mounted on the roof. The ordinary arrangement of steam cylinders and driving gear is used.

ELECTRIC WELDING OF METALS. — Thomson Electric Welding Co., Lynn, Mass. Pamph.; 6¾ × 8⅝ ins.; pp. 33; illustrated.

This is a pamphlet describing the various types of Thomson welding machines. These are manufactured under patents, the basic principle of which is to force the pieces of metal to be welded together allowing electric current to flow through the abutting ends. The resistance of the juncture impedes the current, which finally heats the ends to a welding temperature. Several machines are illustrated as well as specimens of work done, and tables of sizes of welders and generators needed are included.

JOURNAL OF THE IRON & STEEL INSTITUTE—NAME INDEX.—Vols. i. to L. (1869-1896). Edited by Bennett H. Brough, Secy. New York. Spon & Chamberlain; 6 × 8½ ins.; cloth; pp. 564.

This book is of the same style of binding as the 50 octavo volumes of the Journal of the Iron and Steel Institute, published during the years 1869 and 1896, inclusive. It gives the names of all who have directly or indirectly contributed to the Proceedings.

The volume contains a brief introductory history; a chronological list of the papers contained in the first 50 volumes; a classified subject list of these papers; and index of authors and a complete index to the authors of all papers, communications, and abstracts published in the 50 volumes.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened.	Work.	Place.	See Eng. News.
June 23.	Bridge, Honolulu, Hawaii		June 16
June 23.	Iron superstructure,	New Philadelphia, O.	June 16
June 23.	Pipe sewers,	Waterbury, Conn.	June 16
June 23.	Laundry building, etc.,	Gowanda, N. Y.	June 16
June 23.	Paving material,	Lock Haven, Pa.	June 16
June 23.	Brick paving, etc.,	Lima, O.	June 16
	Advertised, Engineering News, June 16.		
June 23.	Valves, pipe, castings, etc.,	Buffalo, N. Y.	June 16
June 23.	Water-works,	Minden, Ia.	June 16
	Advertised, Engineering News, May 26.		
June 23.	Paving,	Nanticoke, Pa.	June 16
June 23.	Asphalt paving,	Newark, N. J.	June 16
June 23.	Paving, etc.,	Pittsburg, Pa.	June 16
June 23.	Brick sewers,	Detroit, Mich.	June 23
June 23.	Electric light plant,	St. Paul, Minn.	June 23
June 24.	Main sewer,	Indianapolis, Ind.	June 23
June 24.	Life saving station,	Block Island, R.I.	June 23
June 24.	School building,	San Diego, Cal.	June 2
June 24.	Bridge,	Cleveland, O.	June 2
June 24.	Tow-boat service,	St. Louis, Mo.	June 2
June 24.	Hire of dredge,	New Orleans, La.	June 9
June 24.	Paving, curbing, etc.,	Ravenna, O.	June 9
June 25.	Bridge,	Alexandria, S. Dak.	June 9
June 25.	Sewers,	Youngstown, O.	June 9
June 25.	Grading, curbing, etc.,	Evansville, Ind.	June 9
June 25.	Railway bridge,	Chicago, Ill.	May 12
	Advertised, Eng. News, May 12 and 19.		
June 25.	Electric plant,	Atlanta, Ga.	June 2
June 25.	Improving road,	Cincinnati, O.	June 2
June 25.	School building,	Cleveland, O.	June 2
June 25.	Bonds,	Bird Island, Minn.	June 16
June 25.	Pumping station,	Norwalk, O.	June 16
	Advertised, Engineering News, June 16.		
June 25.	Macadamizing,	East Hartford, Conn.	June 16
June 25.	Macadam road,	Plainfield, Conn.	June 16
	Advertised, Engineering News, June 16.		
June 25.	Macadam road,	Vernon, Conn.	June 16
June 25.	Iron bridge,	Delano, Minn.	June 23
June 25.	School building plans,	Orange, N. J.	June 23
June 25.	Cables,	Chicago, Ill.	June 23
June 25.	Water-works,	Monrovia, Cal.	June 23
June 25.	Street work,	Wauwatosa, Wis.	June 23
June 26.	Macadamizing,	Greencastle, Ind.	June 16
June 27.	Sewers, etc.,	Wilkinsburg, Pa.	June 23
June 27.	Installing pumping engine,	Philadelphia	June 23
June 27.	Sewers,	East Cleveland, O.	June 23
June 27.	Pipe sewers,	St. Paul, Minn.	June 23
June 27.	School building repairs,	New York, N.Y.	June 23
June 27.	Bridge,	Bement, Ill.	June 23
June 27.	Paving,	Rochester, N. Y.	June 23
June 27.	Paving and grading,	Wilkinsburg, Pa.	June 23
June 27.	Macadam road,	Boston, Mass.	June 23
June 27.	Bridges (3),	Caldwell, Idaho	June 16
June 27.	Elect. supplies, etc.,	Los Angeles, Cal.	June 16
June 27.	Pipe sewers, (12,565 ft.),	Mercer, Pa.	June 16
	Advertised, Eng. News, June 16 and 23.		
June 27.	Paving,	Toledo, O.	June 2
June 27.	Pipe sewers,	South Bend, Ind.	June 2
June 27.	Sidewalks, grading, etc.,	South Bend, Ind.	June 2
June 27.	Iron bridges (4),	Monticello, Ind.	June 9
June 27.	City hall plans,	Barre, Vt.	June 9
June 27.	Street bonds,	Bowling Green, O.	June 9
June 27.	Hospital building work,	Brooklyn, N. Y.	June 16
June 27.	Weirs boulevard,	Laconia, N. H.	June 16
June 28.	Macadam road,	Manchester, Conn.	June 16
June 28.	Bridge,	Columbus, O.	June 9
June 28.	School bonds,	Mount Vernon, O.	June 9
June 28.	Laying water mains,	New London, Conn.	June 9
	Advertised, Engineering News, June 9.		
June 28.	Water bonds, etc.,	Jackson, Mich.	June 9
June 28.	Gravel roads (4 miles),	Indianapolis, Ind.	June 2
June 28.	Dredging, etc.,	Boston, Mass.	June 16
	Advertised, Engineering News, June 16.		
June 28.	Electric wiring,	Halifax, N. S.	June 23
June 28.	Removing ashes, etc.,	Providence, R. I.	June 23
June 28.	Pile wharf,	St. Ann's, N. S.	June 23
June 28.	Pipe sewers,	Lancaster, Pa.	June 23
June 28.	Street improvement,	Chicago, Ill.	June 23
June 28.	Hospital building,	Newport, R. I.	June 23
June 28.	Steel drawbridge,	Tuckahoe, N. J.	June 23
	Advertised, Engineering News, June 23.		
June 28.	Bridge,	Paxton, Ill.	June 23
June 28.	Brick paving,	Troy, N. Y.	June 23
June 28.	Paving, etc.,	Lancaster, Pa.	June 23
June 28.	Levee work,	Dayton, O.	June 23
	Advertised, Engineering News, June 23.		
June 28.	Drainage channel,	Dayton, O.	June 23
	Advertised, Engineering News, June 23.		
June 28.	Paving,	Pana, Ill.	June 23
	Advertised, Engineering News, June 23.		
June 28.	Macadamizing,	Meriden, Conn.	June 23
June 29.	Drafting materials,	Washington, D. C.	June 23
June 29.	School building,	Graceville, Minn.	June 23
June 29.	Macadamizing,	Newington, Conn.	June 23
June 29.	Bonds,	Chicago, Ill.	June 23
June 29.	Brick paving, etc.,	Mannington, W. Va.	June 23
June 29.	Asphalt paving,	Baltimore, Md.	June 23
June 29.	Pipe sewer, etc.,	Meadville, Pa.	June 16
	Advertised, Engineering News, June 16.		
June 29.	Water-works,	Listowel, Ont.	June 16
June 29.	Brick paving,	Meadville, Pa.	June 16
	Advertised, Engineering News, June 16.		
June 29.	Extending water mains,	Aberdeen, Wash.	June 16
June 29.	U. S. building work,	Kansas City, Mo.	June 2
	Advertised, Eng. News, June 2 and 9.		
June 29.	Paving,	Warren, O.	June 2
June 29.	River work,	Chicago, Ill.	May 12
	Advertised, Eng. News, May 12 and 19.		
June 29.	Building work,	Kansas City, Mo.	June 9
June 29.	Electric light plant,	Huron, O.	June 9
	Advertised, Eng. News, June 9 and 16.		
June 29.	Steel bridge,	Camden, N. J.	June 16
	Advertised, Eng. News, June 16 and 23.		
June 30.	Hospital building,	Fort Snelling, Minn.	June 9
June 30.	Excavating, etc.,	Admiralty Head, Wash.	June 9
June 30.	Steel floor beams, etc.,	Cheyenne, Wyo.	June 9
June 30.	Gas apparatus,	New York, N. Y.	June 9
June 30.	School building,	Zanesville, O.	June 2
June 30.	Lamps,	Mansfield, O.	June 16
June 30.	Stand-pipe,	Seattle, Wash.	June 16
June 30.	Electric light plant,	Olyphant, Pa.	June 23
	Advertised, Engineering News, June 23.		
June 30.	Sewers,	Cleveland, O.	June 23
June 30.	Artesian well,	Denver, Colo.	June 23
June 30.	Stone cottage,	Lockport, N. Y.	June 23
June 30.	Levee repairs,	Woodside, O.	June 23
June 30.	Steel superstructure,	Lindsay, Ont.	June 23
June 30.	Heating plant, etc.,	Washington, D. C.	June 23
June 30.	School building,	Farmer City, Ill.	June 23
June 30.	Water-Works,	Andover, N. B.	June 23
June 30.	Macadamizing,	Bloomfield, Conn.	June 23
June 30.	Asphalt paving,	New York, N. Y.	June 23
June 30.	Broken stone, etc.,	Paterson, N. J.	June 23
July 1.	Electric light plant,	Baltimore, Md.	June 23
July 1.	Electric light plant,	Fosston, Md.	June 23
July 1.	Electric light plant,	Richwood,, O.	June 23
July 1.	Water-works,	Washington, Ga.	June 23
July 1.	State house bonds,	Providence, R. I.	June 23
July 1.	College building,	Annapolis, Md.	June 23
July 1.	Asphalt paving,	Indianapolis, Ind.	June 23
July 1.	Cables,	Cincinnati, O.	June 23
July 1.	Granite stones,	New York, N. Y.	June 23
July 1.	Boiler house, etc.,	Evansville, Ind.	June 23
July 1.	Water-works,	Fosston, Minn.	June 23
July 1.	Water bonds,	Beresford, S. Dak.	June 23
July 1.	Grading,	Torrington, Conn.	June 23
July 1.	Stone flagging,	Pelham, N. Y.	June 23
	Advertised, Engineering News, June 23.		
July 1.	School building,	Paducah, Ky.	June 16
July 1.	Bonds,	Toledo, O.	June 16
July 1.	School building,	Aberdeen, S. Dak.	June 16
July 1.	Water power,	Madras, India.	Oct. 28
July 1.	Plans for sewer system,	Formby Eng.	Apr. 7
July 1.	Plans for sewer system,	Cohoes, N. Y.	Apr. 28
	Advertised, Eng. News, Apr. 28 and May 5.		
July 1.	Power plant,	Sault Ste. Marie, Mich.	May 26
	Advertised, Eng. News, April 14 to 28.		
July 1.	Bridges (3),	Columbus, O.	June 9
July 1.	Stone arch culvert,	Cleveland, O.	June 9
July 1.	Street work,	St. Louis, Mo.	June 9
July 1.	Stone bridge,	Niagara Falls, N. Y.	June 16
July 2.	School building,	Mount Vernon, O.	June 9
July 2.	Brick paving,	Canton, O.	June 9
July 2.	Water-works,	Summit, Miss.	May 19
July 2.	Sewer,	Aurora, Ind.	June 16
July 2.	Gun carriages,	Washington, D. C.	June 16
July 2.	Light bonds,	New London, O.	June 16
July 2.	Roofing, etc.,	Brooklyn, N. Y.	June 23
July 2.	Macadamizing,	South Windsor, Conn.	June 23
July 2.	Brick paving,	Des Moines, Ia.	June 23
July 2.	School building,	Wyandotte, Mich.	June 23
July 4.	Bridge,	Carthage, Miss.	June 23
July 4.	Brick paving,	Burlington, Ia.	June 23
July 5.	Sewage disposal plant,	Lancaster, O.	June 16
July 5.	Water-works, etc.,	Lancaster, O.	June 16
July 5.	Sewers,	Jefferson City, Mo.	June 16
July 5.	Drainage work,	Cornwall, Ont.	June 16
July 5.	Water-works,	Ogden, Ia.	June 16
July 5.	Water supply,	Guthrie, Okla.	June 16
July 5.	Steam heating plant,	Lancaster, O.	June 9
July 5.	Dredging in Delaware River,	Pa.	June 9
	Advertised, Eng. News, June 9 to 30.		
July 5.	Iron bridges (4),	Elkton, Md.	June 9
July 5.	Brick paving,	Wellsburg, W. Va.	June 23
July 5.	Sewer bonds,	Goldsboro, N. C.	June 23
July 5.	Bridges,	Chehalis, Wash.	June 23
July 5.	Grading,	Mount Vernon, N. Y.	June 23
July 5.	Street bonds,	Oak Harbor, O.	June 23
July 5.	Pipe sewers,	Mount Vernon, N. Y.	June 23
July 5.	Pipe sewers,	Avalon, Pa.	June 23
July 5.	Pipe sewers,	Plattsburg, N. Y.	June 23
July 5.	House drainage system,	Savannah, Ga.	June 23
	Advertised, Eng. News, June 23 and 30.		
July 5.	Bridge,	Rochester, N. Y.	June 23
	Advertised, Eng. News, June 23 and 30.		
July 5.	Village hall,	Summit, Ill.	June 23
July 5.	Grading, etc.,	St. Louis, Mo.	June 23
July 6.	Bridge work,	Grafton, N. Dak.	June 23
July 6.	Fire department building,	New York, N. Y.	June 23
July 6.	Fire boat repairs,	New York, N. Y.	June 23
July 6.	Arch and superstructures (2),	Mt. Vernon, O.	June 23
July 6.	Fire engines, etc.,	New York	June 23
July 6.	Plumbing, etc.,	Cleveland, O.	June 23
July 6.	Boilers (2),	Boone, Ia.	June 23
July 6.	Locktenders' dwellings,	Louisville, Ky.	June 23
July 6.	Plumbing, etc.,	Cleveland, O.	June 9
July 6.	Gravel road,	Freehold, N. J.	June 16
July 6.	Levee work,	Memphis, Tenn.	June 16
	Advertised, Eng. News, June 16 to 30.		
July 6.	Electric lighting,	Wooster, O.	June 16
July 7.	Drainage work,	Cornwall, Ont.	June 16
July 7.	Tow-boat service,	Cincinnati, O.	June 16
July 7.	Jail building,	Irwinville, Ga.	June 16
July 7.	Brick paving, etc.,	Lima, O.	June 16
	Advertised, Eng. News, June 16 to 30.		
July 7.	Iron or steel bridge,	Kingfisher, Okla. Ter.	May 19
July 7.	Sewers and water mains,	Lamberton, Minn.	June 23
July 7.	Bridge,	Sprague, Wash.	June 23
July 7.	Plans for sewer system,	Lancaster, N. Y.	June 23
	Advertised, Engineering News, June 23.		
July 7.	Heating and ventilation,	Charles City, Ia.	June 23
July 8.	Water-works,	Cambridge Springs, Pa.	June 23
	Advertised, Eng. News, June 23 and 30.		
July 8.	Heating, etc.,	Clarksville, Tenn.	June 23
July 8.	Bridge,	Roseburg, Ore.	June 2
July 8.	Bridges (2),	Farman, N. Dak.	June 9
July 8.	Steel bridge,	Aberdeen, S. Dak.	June 16
July 9.	Street improvement supplies,	Washington	June 16
	Advertised, Engineering News, June 16.		
July 9.	Brick paving, etc.,	Cleveland, O.	June 16
July 9.	Water-works,	Morris, Minn.	June 16
July 9.	School buildings,	Dayton, O.	June 9
July 9.	Substructure, etc.,	Cincinnati, O.	June 16
July 9.	Asphalt paving,	Washington, D. C.	June 16
	Advertised, Engineering News, June 16.		
July 9.	Highway work,	Wapakoneta, O.	June 16
July 9.	Post office, building,	Pottsville, Pa.	June 23
July 9.	Hospital building,	Mendocino, Cal.	June 23
July 9.	Street work,	Athens, O.	June 23
July 10.	School building,	Rush City, Minn.	May 26
July 11.	Bridge,	Breckenridge, Minn.	May 19
July 11.	Paving,	Salem, O.	June 16
July 11.	Paving,	Toledo, O.	June 16
July 11.	Electric light bonds,	Wapakoneta, O.	June 23
July 11.	Hospital building,	Newark, N. J.	June 23
July 11.	Brick paving,	Swanton, O	June 23
	Advertised, Engineering News, June 23.		
July 11.	Cement sidewalks,	South Bend, Ind.	June 23
July 12.	Macadam road,	Ridgefield, N. J.	June 23
	Advertised, Eng. News, June 23 and 30.		
July 12.	Road work,	Columbus, O.	June 23
July 12.	Bridge and material,	Moscow, Idaho.	June 16
July 13.	Steel bridge,	Brookings, S. Dak.	June 9
July 13.	Hospital building,	Agnew, Cal.	June 23
July 14.	Gas lamps (300),	Ironton, O.	June 16
July 14.	Electric lighting,	Ironton, O.	June 16
July 15.	Electric plant,	Lamar, Colo.	May 5
July 15.	Electric plant,	Gaylord, Minn.	June 16
	Advertised, Eng. News, June 16 and 23.		
July 15.	Bridge,	Cincinnati, O.	June 23
July 15.	Harbor work,	Goderich, Ont.	June 23
July 15.	Post office building,	Akron, O	June 23
	Advertised, Eng. News, June 23 and 30.		
July 16.	Bridge,	Norwalk, O.	June 23
July 16.	Water pipe,	Montgomery, Ala.	June 23
	Advertised, Eng. News, June 23 to July 7.		
July 16.	Brick sewer, etc.,	Muscatine, Ia.	June 16
July 18.	Street railway franchise,	Salinas, Cal.	June 23
July 19.	Bridge construction,	Chillicothe, O.	June 23
	Advertised, Engineering News, June 23.		
July 20.	Bridges, etc. (11),	Chicago, Ill.	June 2
	Advertised, Engineering News, June 2.		
July 20.	Embankment, etc.,	Lemont, Ill.	June 2
	Advertised, Engineering News, June 2.		
July 20.	Capitol building plans,	Phoenix, Ariz.	June 2
July 20.	Heat regulating system,	Athens, O.	June 9
July 22.	Hydraulic dredge,	St. Louis, Mo.	June 23
	Advertised, Eng. News, June 23 to July 14.		
July 23.	Cement sidewalks,	Washington, D. C.	June 23
	Advertised, Engineering News, June 23.		
July 25.	Water-works,	Winnipeg, Man.	June 2
	Advertised, Eng. News, June 2 to 23.		
July 27.	Water supply,	Ridgewood, N. J.	June 23
	Advertised, Eng. News, June 23 and 30.		
July 31.	Water supply,	Tangier, Morocco.	June 23
Aug. 2.	Steel rails,	Ottawa, Ont.	June 16
Aug. 8.	Water pipe, etc.,	Winnipeg, Man.	June 16
	Advertised, Eng. News, June 16 to 30.		
Aug. 15.	Exhibition bldg. plans,	Glasgow, Scotland	June 2
Aug. 23.	Water pipe,	Coolgardie, West Australia	June 2
Aug. 31.	Custom house,	Guayquil, Ecuador	Apr. 21
Sept. 1.	Battleships (3),	Washington, D. C.	June 23
Sept. 12.	Hospital plans,	San Francisco, Cal.	Mar. 24
Oct. 24.	Markets, etc.,	Belem, Brazil	Apr. 28
Oct. 30.	School building,	Chehalis, Wash.	June 16
Dec. 31.	Plans for station, etc.,	Stockholm, Sweden	June 23
No date.	Telephone system,	Detroit, Mich.	June 23

RAILWAYS.

ALABAMA GREAT SOUTHERN.—Reports state that this company will soon replace the 60-lb. steel rail on its line from Birmingham, Ala., to a point 25 miles south with a 75-lb. rail. This is part of the project which contemplates relaying the entire road with heavier steel rail. Frank S. Gannon, Gen. Mgr., Washington, D. C.

ATCHISON, COLORADO & PACIFIC.—P. I. Bonebrake, Topeka, Kan., informs us that no progress has yet been made towards the construction of this proposed railway from Waterville to Lenora, Kan., as referred to in our last issue.

CHICAGO, MILWAUKEE & ST. PAUL.—Press reports state that this copmany has just completed the laying of 37 miles of second track between Davis Junction and Kittredge, Ill., thus completing a system of double-track between Chicago and the Mississippi River, a distance of 138 miles. Several miles of new track are also being laid, and on the main line the old 60-lb.rails are being replaced by 85-lb. rails; a large amount of ballasting is also to be done this year. D. J. Wittemore, Ch. Engr., Chicago, Ill.

CLEVELAND, CINCINNATI, CHICAGO & ST. LOUIS.—Geo. W. Kittredge, Ch. Engr., Cincinnati, O., informs us that this company is now engaged in rearranging its side tracks on its Chicago division so as to enable it to put into operation a positive blocking system. This block, as contemplated, is the telegraph block operated and used by telegraph operators, which keeps trains separated at least one block apart. In doing this work it was necessary to remodel and build about ten miles of side tracks. The work is about half done.

CLEVELAND TERMINAL & VALLEY.—E. G. Lane, Ch. Engr., Cleveland, O., is quoted as stating that the surveys have been completed for the extension of the Huff's Run branch from Linden, O., four miles to new coal fields owned by the Davis R. R. Coal Co., and that this latter company will have charge of the work of construction.

CRIPPLE CREEK DISTRICT.—The bill introduced in Congress by Senator Wolcott granting right of way through Pike's Peak timber land reserve and public lands to the Cripple Creek District Ry. Co., of Colorado, was passed June 13, by the Senate without amendment. The proposed right of way enters the reserve on the eastern or northern boundary at some convenient point in El Paso county, and runs westward through the reserve to its western boundary. Sufficient side tracks, extensions and branches are allowed to reach the important groups of mines in El Paso county and a right of way is granted through the public lands to Cripple Creek, Colo.

DULUTH & NEW ORLEANS.—This company was incorporated in Iowa June 10 with a capital stock of $300,000, to construct a line of railway from Duluth, Minn., to some convenient gulf port, presumably Port Arthur, with headquarters at Nevada, Ia. The first board of managers is composed of Robert B. Hunter, Topeka, Kan.; Thomas Wardell, H. A. Wardell, S. V. Wardell, Osage, Ia.; T. V. Wardell, Mitchell county; H. C. Arnold, Minneapolis, Minn.; G. W. Lamke, New Hampton, Ia.

EAST ST. LOUIS BELT.—This company was incorporated in Illinois, June 15, with a capital stock of $500,000, to construct a railway from a point on the Mississippi River, in Madison county, to a point opposite St. Louis, in St. Clair county. The incorporators are: Julius S. Walsh, E. P. Bryan, James Hanna, J. M. Hamille and F. C. Daab, of St. Louis, Mo.

ELKHART & WESTERN.—W. H. Rosencrans, Ch. Engr., South Bend, Ind., informs us that this railway was sold to the Lake Shore & Michigan Southern Ry. Co. on May 13, and that this company will probably build a western connection with its line at Mishawaka, Ind.

GULF, TEXAS & NORTHERN.—Reports state that surveys have been commenced for this proposed railway, from Orange to Marshall, Tex., a distance of about 200 miles. Pres., L. W. Lloyd, Marshall; Treas., W. W. Reid, Orange, Tex.

HIGHLAND & ST. JOSEPH. — James L. Allen, Secy., Highland, Kan., informs us that this company, which was incorporated May 29 with a capital stock of $25,000, proposes to construct a steam railway from Severance to Highland, Kan., 7½ miles. Surveys have been made and the right of way is now being obtained. The capital necessary for construction has been secured and it is expected to award contracts in about five weeks. Pres., W. M. Boone, Highland; Ch. Engr., Mr. Smith, of St. Joseph, Mo., who is also the engineer for the St. Joseph & Grand Island R. R.

KANSAS & SOUTHEASTERN.—Francis S. Eaton, Pres., Arkansas City, Kan., informs us that this line has been completed from Hunnewell, Kan., on the Atchison, Topeka & Santa Fe Ry., to Braman, Okla., and was put in operation May 31. A further extension from Braman to Kay Center, Okla., will be completed in about twenty days. Chas. F. Leech, Ch. Engr., Kansas City, Kan. Dwight Braman, 7 Nassau St., New York, is said to be interested.

MARSHALL, TIMPSON & SABINE PASS.—Avery & Co., Timpson, Tex., are reported to have been awarded the contract for constructing an extension of this line between Russell and Carthage, Tex. L. F. Limbert, Pres., Greenville, O.; T. S. Garrison, Gen. Mgr., Timpson.

NEW YORK, WYOMING & WESTERN.—Press reports state that the preliminary survey of this proposed railway has been completed between Scranton, Pa., and the New Jersey shore of the Delaware River, crossing the river near Martin's Creek Bridge, Pa. It is said that three surveys will be made. This company was incorporated in May, as stated in our issue of May 12, and it proposes to build a new line from the coal district near Scranton to tidewater. Pres., Edward B. Sturges, Scranton, Pa.

NORFOLK, VIRGINIA BEACH & SOUTHERN. — R. H. Pannill, Gen. Passenger Agt., Norfolk, Va., writes us that this company has bought two pieces of land in Brambleton Ward, in the city of Norfolk, for the purpose of making a deep-water terminal at this place in order to handle the freight coming over the Currituck division of the road which was opened for traffic on April 23. The establishment of this terminal will require the erection and maintenance of new wharves, piers, buildings, etc. Pres., Alfred Skitt, 3 Beaver St., New York.

NORTHERN PACIFIC.—Reports state that this company has obtained the balance of the right of way for the branch line so long projected from Wallace to North Fork, via Sunset Peak, Idaho. Work was commenced on this road in 1892 by a company known as the Wallace & Sunset R. R. Co., but was discontinued after several miles had been graded.

RESTIGOUCHE & WESTERN.—Reports state that the contract for the construction of this railway from the Bay of Chaleurs southwest 110 miles to the St. John River in New Brunswick, has been awarded to Malcolm & Ross, St. Leonards, N. B.

SANTA FE, PRESCOTT & PHOENIX.—W. A. Drake, Ch. Engr., Prescott, Ariz., informs us that four sidings are now being constructed on this line in the Prescott yards, and that the location on a section of the road has been changed; several wooden trestles will be filled during this year. This company is also constructing the Prescott & Eastern R. R., from Junction, Ariz., to the Big Bug Mining District, via Mayer Station, a distance of 26 2-5 miles. It is expected to complete the construction of this new line in September. Pres., F. A. Murphy, Prescott.

SEABOARD AIR LINE.—W. W. Gwathmey, Jr., Ch. Engr., Portsmouth, Va., informs us that this company has about completed the elimination of a 10° curve and the reduction of a long and heavy grade on the Gaston cut-off on the Raleigh & Gaston branch. Drawbridges are being replaced at Hilton and Navassa, near Wilmington, N. C., by the Wilmington Ry. Bridge Co. Construction work is also about to begin on a new brick passenger station at Weldon, on the Raleigh & Gaston R. R.; and a new warehouse, 220 × 260 ft., a new wharf and a pier are being built at Portsmouth, Va., on the Seaboard & Roanoke R. R. The above work, together with the construction of the Logansville & Lawrenceville branch, comprises all the improvements to the system which are either under way or contemplated.

SOUTHERN PACIFIC.—J. T. Mahl, Engr. Maintenance of Way, Houston, Tex., informs us that the following progress has been made on the construction and improvement work now being undertaken by this company: The Arnaudville extension, on which work began last December, is almost completed and will be thrown open to traffic about July 15. This branch extends through a cane belt region, on the west bank of Bayou Teche, La., from St. Martinsville, present terminus of a branch line now operated by this company, to Arnaudville, La., a distance of about 24 miles; on the La Fourche extension, the company is now at work grading an extension of its branch line now terminating at Thibodaux, La., on the west bank of La Fourche Bayou to Napoleonville, about 19 miles. The line is through a cane belt region entirely. It is expected that grading will be completed by July 1, when track laying and bridging will commence, being conducted by this company's forces. During the past year this company has constructed, or now has in course of construction, in the mountainous regions in western Texas, between Valentine and Sanderson, five changes of alinement, constructed for the purpose of eliminating curvature. The aggregate length of these changes is 46,723 ft., and they eliminate 5,695 ft. in distance and 1,400 degrees of curvature.

TEXAS WESTERN.—E. A. Campbell, of Beaumont, Tex., formerly general manager, informs us that it is reported that this company will be reorganized in order to operate the line between Houston and Sealy, Tex., and extend the same up the Brozas.

STREET AND ELECTRIC RAILWAYS.

STOCKBRIDGE, VT.—It is reported that this town has voted to issue $10,000 in bonds to aid in constructing the electric railway from Bethel to Rochester.

PROVIDENCE, R. I.—The Providence & Taunton St. Ry. Co. has filed articles of association, with a capital stock of $160,000, to construct a line from a point where the Taunton turnpike intersects the state line in Seekonk, through Rehoboth and Dighton to City Square, Taunton, a distance of 16 miles. The directors are J. A. King, clerk; F. E. Perkins, treasurer; Reuben Bowen, N. E. Walker, G. E. Francis, Asa Waterman and Peter A. Corr.

ALBANY, N. Y.—We are informed that T. D. Welch, of Nassau, N. Y., has been awarded the contract for constructing 15 miles of the new Albany, Helderberg & Schoharie Electric Ry., and that he expects to begin work within one week. Mr. Welch will have to employ several other outfits besides his own, as there is a large amount of scraper work to be done. Those having idle outfits would do well to apply at once, as preparations to begin work are now being made. Further and fuller information regarding the proposed railway was published in our issue of June 9. Pres., Henry W. Burgett, Boston, Mass.

BUFFALO, N. Y.—Press reports state that Albert C. Emmerick has been appointed temporary receiver of the Buffalo, Kenmore & Tonawanda Electric Ry. Co. It is said that many repairs to the line are necessary for its proper and safe operation. Chas. W. Ricker, Electrical Engr.

NEW YORK, N. Y.—It is reported that the Pelham Electric Light & Power Co. has renewed its option on the Pelham Park and City Island railway companies, which will continue until the middle of next September. At this time it is expected that a direct line will be operated between City Island and Mount Vernon, via Bartow, and also with places along the Shore Road.

SYRACUSE, N. Y.—The Syracuse Rapid Transit Ry. Co. has petitioned the council for another franchise to construct a new line of street railway in this city, and also to lay double tracks in all streets through which branches are operated by single rail. J. H. Moffitt, Gen. Supt.

ORANGE, N. J.—The Orange & Passaic Valley Ry. Co. has been incorporated, with a capital stock of $1,000,000, to construct or acquire a street railway. The incorporators are Chas. A. Sterling, of East Orange; William Scheerer, Orange; Albert E. Carlton, Elizabeth, N. J.; Bird W. Spencer, Passaic, N. J.; John A. Ely, Orange.

CLARION, PA.—Press reports state that eastern capitalists are considering the feasibility of building a 40-mile electric railway from Clarion to Du Bois, Pa., via Strattonville, Corsica, Brookville, Reynoldsville, Rathmel and other smaller towns. If the scheme is put through a large amusement park will probably be established on the line.

DOYLESTOWN, PA.—The Doylestown Ry. Co. was incorporated June 21, with a capital stock of $50,000, to construct a street railway in this town. The incorporators are: Pres., Frank N. Booz; Byron M. Peters and Henry S. Murfit, of Doylestown; Joseph K. Dobbins, Neshaminy, Pa.; J. K. Hallowell, Horsham, Pa.

MEADVILLE, PA.—Our correspondent informs us that the Kerrtown and Fredericksburg or suburban branches of the Meadville Traction Co.'s system were opened for traffic on June 18.

NATCHEZ, MISS.—The Natchez Light, Power & Transit Co., of Natchez, informs us that it has a franchise to build an electric railway in this city, and that the construction of the same will be considered after the completion of the electric lighting plant, described under Electric Light and Power. Maurice Moses, Pres. and Gen. Mgr.

DAYTON, O.—John A. Hahne, Cy. Clk., informs us that the city council passed an ordinance on June 10 granting the Dayton, Springfield & Urbana Electric Ry. Co. the right to construct and operate a street railway in this city. The ordinance now awaits the approval of the board of city affairs.

FREMONT, O.—It is reported that the work of securing the right of way for the proposed electric line between Tiffin and Fremont is practically completed.

MARION, IND.—T. E. Petrie, Cy. Engr., Marion City Ry., 2804 South Washington St., Marion, informs us that this company has bought the franchise and rights of the Indiana Traction Co., and that an extension of 11 miles is now being made to connect with the Union Traction Co.'s line at Summitville, Ind., thus making the longest interurban road in the state; that is, from Marion to Anderson, a distance of 32 miles. When the extensions are completed the company will own about 38 miles of line.

MILWAUKEE, WIS.—Bids will be received until June 20, according to reports, for erecting a 3-story power station for the Milwaukee Electric Ry. and Light Co., to cost about $60,000.

OSHKOSH, WIS.—The Oshkosh-Omro-Berlin Electric Ry. Construction Co. has been organized, with a capital stock of $25,000, to build an electric railway from Oshkosh to Berlin. The members of the company are J. H. Jenkins, S. W. Hollister, John Hinebaugh, Nathan Paine, Jay Hume, W. J. Wagstaff, R. C. Russell, A. B. Ideson and Charles Barber.

OAKLAND, CAL.—It is reported that the Oakland Transit Co. has been granted a franchise to construct an electric railway over 8th St., from Grove St. to Broadway, and over Franklin St., from Second to Webster St.

SALINAS, CAL.—Bids will be received by the city clerk until July 18 for a 20-year street railway franchise, for which the Salinas Ry. Co. is an applicant.

SAN FRANCISCO, CAL.—The Market St. Ry. Co. has made eight applications for franchises to build extensions to its system. It also seeks another 50-year franchise and the privilege of changing its cable system of motive power to trolley.

WATERLOO, ONT.—This town has voted a bonus of $12,000 towards the $40,000 asked from Waterloo and Berlin, by the Galt & Preston Electric St. Ry. Co., which proposes to provide connection with the Canadian Pacific Ry. It now remains for Berlin to vote the additional bonus of $28,000.

ELECTRIC LIGHT AND POWER.

WATERVILLE, ME.—Surveys and plans are being made by the Union Gas & Electric Co. for developing the water power on the lower Messalonskee River in this city. A dam will be built at once. About 1,500 HP. will be secured. Pres., Chas. F. Johnson; Treas., Nathaniel Meade; Gen. Mgr., Frank Chase.

BURLINGTON, VT.—N. K. Brown, Chn. St. Comrs., writes us that the city is considering a proposition from the Consolidated Electric Co. for a 5-year contract; it is probable the city will accept it.

PROVIDENCE, R. I.—The question of either securing cheaper lights from the Narragansett Electric Lighting Co. or of building a municipal plant is being considered. The company recently asked for authority to construct conduits for its wires.

FARMER, N. Y.—The question of building a plant in this place is being considered, according to reports.

FINDLEY LAKE, N. Y.—It is stated that a company is being organized to build a plant; capital stock, $1,000.

VINELAND, N. J.—Geo. M. Todd, Agent, writes us that bids for building the proposed light and power plant will be received in August; estimated cost, $40,000.

OLYPHANT, PA.—Bids are asked until June 30 for furnishing and constructing a plant for Blakely, as stated in our advertising columns. It will have a capacity for 60 arc and 1,800 incandescent lights; estimated cost, $15,000. Engr., Morton Harloe; Chn. Com., W. S. Bloes; Secy., T. E. Williams.

PITTSBURG, PA.—H. T. Gourley, Controller, has recommended that no contract be let for a plant for the city hall, as it is stated that the plant in the building of public safety can furnish all the light and power necessary.

WASHINGTON, D. C.—Bids were opened June 13 at the office of the Potomac Electric Lighting Co. for the erection of a new power house on the site of the present structure at the foot of 33d St., Georgetown. The new building is to be large enough for two additional engines, which will make a total of five in all. The plan is to furnish power for the Consolidated Eckington, Washington & Maryland and Columbia & Maryland railways. The line will be underground electric in the city and the double trolley in the county. D. Y. Crosby, Director.

BALTIMORE, MD.—Bids are asked until July 1 for installing a plant, conduits, etc., for the new court house. Archs., Wyatt & Nolting, 4 E. Lexington St., Baltimore, Md.; Chn. Com., Henry D. Harlan.

SHEFFIELD, ALA.—Press reports state that Judge Thos. R. Roulhac, of Sheffield, is securing capital for the proposed Muscle Shoals power canal. The plant will transmit power to places within a radius of 100 miles. Engr., A. F. Walker, 913 Austin Bldg., Atlanta, Ga.

UNION SPRINGS, ALA.—The council is making arrangements for constructing the proposed plant, according to reports.

NATCHEZ, MISS.—We are informed that bids for constructing the proposed light plant for the Natchez Light, Power & Transit Co. will be received early in July. The company has received a 10-year contract for lighting the city. The plant will have a capacity for 100 arc of 2,000 c. p., and a large number of incandescent lights. Pres. and Gen. Mgr., Maurice Moses; Secy. and Treas., Abraham Moses.

NEW IBERIA, LA.—It is stated that the plant owned by S. Broussard was destroyed by fire June 9. It was built at a cost of about $15,000.

NEW ORLEANS, LA.—The council is now considering a proposition to ask for bids for lighting the entire city either with electricity, oil or gas. The present contract with the electric light company has some four years to run.

RUSTON, LA.—Fred. A. Price, Mayor, writes us that the question of issuing bonds for a plant has not yet been submitted to a vote of the people.

McARTHUR, O.—This place is reported to have been authorized to issue $5,000 in bonds for a plant. G. W. Pearce, Clk.

RICHWOOD, O.—Bids are asked until July 1 for lighting this place with electricity. S. D. Evans, Clk., writes us that this place failed to vote in favor of the proposition to issue $10,000 in bonds for a municipal plant. Mayor, M. W. Hill.

WAPAKONETA, O.—Bids are asked until July 11 for the purchase of $5,000 of 5% electric light bonds, according to reports. V. B. Arnold, Village Clk.

DECATUR, MICH.—This place will vote June 27 on the question of issuing $6,000 in bonds for a plant.

PETOSKEY, MICH.—This city voted June 13 to issue $16,000 in bonds to purchase the plant of the Edison Electric Light Co. It is probable that the plant will be extended.

IOWA CITY, IA.—Aldermen Davis, Tullis and Beyer, of the committee, are considering plans for the proposed plant.

ELMA, IA.—F. W. Church, Mayor, writes us that at the election, June 10, this place voted to build a plant. It will have capacity for 7 arc and 400 16-c. p. incandescent lights. J. D. O'Donnell, Cy. Clk.

TWO HARBORS, MINN.—We are informed that bids for constructing the proposed plant will be asked in a few days; estimated cost, $5,500. Des. Engr., F. McCormack, Duluth, Minn.; Recdr., W. A. Doerr.

FOSSTON, MINN.—Bids are asked until July 1 for furnishing and constructing the proposed plant and waterworks; estimated cost, $12,000. Engr., Chas. F. Loweth, 94 E. 4th St., St. Paul, Minn., and Davenport, Ia.; Recdr., N. J. Anderson.

ST. PAUL, MINN.—Bids are asked until June 23 for installing a plant at the city and county hospital. Engr., A. W. Jahm, 204 Manhattan Bldg., St. Paul; Secy., O. J. Tong, Bd. of Control.

AUBURN, CAL.—W. R. Arthur, Clk., writes us that all bids are in for furnishing the Central California Electric Co. with machinery, etc.; estimated cost, $60,000. The plant will have Pelton water wheels, Westinghouse dynamo, overhead wire, 3,150 ft. of 36-in. pipe, etc. Mgr., C. Van Norden, Sacramento.

HAMILTON, ONT.—Press reports state that the Cataract Power Co. will award contracts in about a month for machinery, etc., for its proposed plant. Much interest has been taken in the scheme of the Cataract Power Co. to transmit current a distance of 35 miles. About 4½ miles of pipe will be needed. A power house is to be erected where the current will be generated and transmitted to the transformer station at Hamilton for distribution for lighting and power purposes. The complete work will cost about $600,000. A. McDonald & Co., Thorrold, Ont., are the contractors for the canal work, head gate, etc. The Royal Electric Co., Montreal, is to purchase and supply the electrical machinery. Wm. Kennedy, of Montreal, will be the hydraulic engineer, and T. E. Hillman will be the engineer in charge, and C. W. Moody superintendent of construction of pipe line and power house.

HALIFAX, N. S.—Bids are asked until June 28 for the electric wiring of the Drill Hall; check, $200. Engr., C. E. Dodwell, Halifax; E. F. E. Roy, Secy. Dept. Pub. Wks., Ottawa, Ont.

NEW COMPANIES.—Gordon Battery Co., Portland, Me., $250,000, of which $250 is paid in; Pres., A. S. Pinkham, New York; Treas., Charles E. Lockwood, New York.

Canadian Bryant Electric Co., Bridgeport, Conn.; $5,000; W. C. Bryant, L. N. Eaton, J. B. Hubbell, E. W. Marsh, H. A. Hubbell, E. M. Scribner. A factory is being built near the West End.

Kane's Falls Electric Co., Fort Ann, N. Y.; $25,000; Eugene L. Ashley, Elizabeth H. Ashley, Glens Falls, N. Y.; Elmer J. West, Caldwell, N. Y.

Riddle Power Transmitting Co., of Browning, Mo.; $5,000; E. C. Riddle, C. U. Lewis, W. H. Mansur.

Vineland Water & Electric Power Co., Vineland, N. J.; $20,000, with $1,000 paid in; Augustus M. Halsted, Rye, N. Y.; Geo. M. Todd, Vineland, Miss.; A. M. Barbour, Madison, Ind.

Columbia Traction, Light & Power Co., Columbia, S. C.; $520,000; Frank F. Williams, Willet Hazard, Buffalo, N. Y.; F. H. Weston, Columbia, S. C.

Bristol Electric Light & Power Co., Bristol, Va.; Pres., Dr. J. F. Hicks; Secy. and Treas., Jno. C. Anderson.

BRIDGES.

PROVIDENCE, R. I.—It is reported that the question of building a bridge over the Woonasquatucket River, is being considered.

NEW HAVEN, CONN.—Reports state the New Haven County Club has had plans prepared for the construction of a 270-ft. steel bridge at Lake Whitney.

BUFFALO, N. Y.—The following bids were received last week by the grade crossings commission for the superstructure of the Seneca and Hamburgh St. viaduct:

A. P. Kehr	$149,224
Williams, McNaughton & Bapst	153,021
Dwyer & Huntington	153,336
Chas. Mosier	159,349
Brown, Stabell & Griffiths	159,630
Christopher Smith	159,997
Hingston & Woods	160,157
Henry P. Burgard	160,594
Williams Bros. & Morse	163,038
B. L. Crooker	163,782
Jas. B. Donnelly	164,767
B. P. Smith	168,347
Furnaceville Iron Co	204,031

ROCHESTER, N. Y.—Bids are asked until July 5 for constructing a lift bridge over the Erie Canal at Fitzhugh St., as stated in our advertising columns. Geo. W. Aldridge, Supt. Pub. Wks., Albany.

BOUND BROOK, N. J.—The freeholders of Somerset and Middlesex counties have decided to construct a bridge over Green Brook at Union Ave., to cost about $20,000.

CRYSTAL LAKE, N. J.—The board of freeholders have ordered the Melan Arch Construction Co., 35 Nassau St., New York, to make plans and specifications for a Melan arch bridge 26 ft. × 24 ft. Thos. Post, Chn. Com., Midland Park.

MAHWAH, N. J.—Bids will be asked by the county freeholders, as soon as plans are completed, by the Melan Arch Construction Co., 35 Nassau St., New York, for the construction of an arch bridge 32 ft. × 22 ft. A. A. King, Chn. Com., Mahwah.

RAHWAY, N. J.—The county freeholders have authorized the bridge committee to construct a new bridge over the Rahway River at Bridge St., to cost about $8,000. Louis Quien, County Engr.

TUCKAHOE, N. J.—Bids are asked until June 28 for the construction of a steel drawbridge, about 117 ft. long, over the Tuckahoe River, as stated in our advertising columns. J. C. R. Smith, Clk. Com.

WALDWICK, N. J.—The Melan Arch Construction Co., 35 Nassau St., New York, has prepared plans for a Melan bridge 16-ft. span, 32 ft. wide, at this place. Bids will soon be asked. T. V. Terhune, Chn. Com., Ridgewood.

NEW ORLEANS, LA.—The residents of the seventh ward have asked for the construction of a bridge over the St. Bernard Ave. canal at Prieur St.

CARTHAGE, MISS.—Bids are asked until July 4 for constructing a bridge over Lobutcha Creek, according to reports. J. L. McMillon, Clk.

CHILLICOTHE, O.—Bids are asked until July 19 for certain bridge work, as stated in our advertising columns. H. S. Adams, County Audr.; A. W. Jones, County Engr.

CINCINNATI, O.—Bids are asked until July 15 for the construction of a wrought iron truss bridge over the south fork of Taylor's Creek, Miami township. Eugene L. Lewis, County Audr.

MOUNT VERNON, O.—Bids are asked until July 6 for constructing the iron superstructures of two bridges over the Kokosing River at Browns ford, 110 ft. × 16 ft. and at McArtors ford, 170 ft. × 14 ft.; also for furnishing the material and for the construction of a stone arch bridge 36 ft. × 20 ft., over Center Run, in Clinton township. W. A. Wander, County Audr.

NORWALK, O.—Bids are asked until July 16 for furnishing the material and constructing a bridge on the Gates Road, Greenfield township. A. Sheldon, County Audr.

MUSKEGON, MICH.—Negotiations are being made with the Grand Rapids & Indiana Ry. Co. for the construction of a new viaduct over Beidler St. Thos. Rodd, Ch. Engr., Pittsburg, Pa.; Clifford Gamble, Cy. Engr.

BEMENT, ILL.—Bids are asked until June 27 for constructing a 70-ft. × 14-ft. bridge, on stone masonry foundation. Harvey Fay, Town Clk.

PAXTON, ILL.—Bids are asked until June 28 for the construction of an 85-ft. × 14-ft. highway bridge and 105 cu. yds. of stone masonry substructure. V. E. Johnston, Town Clk.

DELANO, MINN.—Bids are asked until June 25 for the construction of an iron bridge on the Waverly Road, according to reports. F. C. Kespoll, Town Clk.

LARIMORE, N. DAK.—Bids are asked by the Great Northern Ry. Co. for constructing two steel bridges 1,760 ft. long and 400 ft. long, according to reports. James Russell, Div. Supt., Larimore.

GRAFTON, N. DAK.—Bids are asked until July 6 for constructing iron and pile bridges from July 1 to May 1, 1900, according to reports. O. M. Fraser, County Audr.

KANSAS CITY, MO.—Henry A. Wise, Cy. Engr., informs us that the proposed viaduct mentioned in our last issue will not be constructed this year.

CHEHALIS, WASH.—Bids are asked until July 5 for building a bridge across the Tilden River. Albert Schooley, County Audr.

SPRAGUE, WASH.—Bids are asked until July 7 for furnishing the material and for the construction of a bridge 100 ft. long over Crab Creek. J. W. Gunning, County Clk.

SAN JOSE, CAL.—Reports state that County Supervisor Roll has been authorized to have plans prepared for the construction of a steel bridge over Los Gatos Creek, on Campbell Ave.

ST. HYACINTHE, QUE.—It is reported that the St. Hyacinthe & Granby Ry. Co. proposes to construct a bridge over the Yamaska River.

LINDSAY, ONT.—Bids are asked until June 30 for constructing a steel superstructure, consisting of two 50-ft. spans, 28 ft. wide, at Lindsay St. F. Knowlson, Town Clk.

KAMLOOPS, B. C.—The board of public works, Victoria, is having plans prepared for the construction of a bridge 939 ft. long, of the Howe truss pattern, with a draw span of 180 ft., at this place.

BUILDINGS.

HAMPTON, N. H.—Bids were asked by the U. S. Life Saving Service, Washington, D. C., until June 20, for constructing a life saving station near Great Boar's Head, in the town of Hampton.

BURLINGTON, VT.—H. O. Wheeler, of Burlington, informs us that W. R. B. Wilcox, of this city, has been chosen as the architect for the new high school building. Reported cost, $75,000.

BOSTON, MASS.—The city council has appropriated $80,000 for the reconstruction of Faneuil Hall.

HOLYOKE, MASS.—It is reported that the contract for erecting the Senior Block has been awarded to Doane & Williams, of this city, at about $75,000.

NORTHAMPTON, MASS.—It is announced that gifts amounting to $50,000 have been given to Smith College to be used for the erection of an academic hall. Pres., L. Clarke Seelye, D. D.

SPRINGFIELD, MASS.—A fire in the business portion of this city, June 21, destroyed property valued at about $90,000. Among the losers are the Rothwell Estate, Meigs & Co., J. Wheresy & Son and others.

BLOCK ISLAND, R. I.—Bids are asked by the U. S. Life Saving Service, Washington, D. C., until June 24, for constructing a life saving station on Sandy Point, at north end of Block Island. S. I. Kimball, Gen. Supt.

NEWPORT, R. I.—Bids are asked until June 28 for the erection of a naval hospital for contagious diseases, at the naval station in Newport, to cost within $6,500. W. K. Van Reypen, Surgeon-General, U. S. N.

PROVIDENCE, R. I.—Bids are asked until July 1 for the purchase of $80,000 of 3% state house construction bonds. Walter A. Read, Gen. Treas.

BROOKLYN, N. Y.—A fire in this city, June 16, destroyed the 4-story brick storage building at the Commercial Wharf, foot of Summit St., causing a loss of about $60,000. The building was 200 × 75 ft., and was owned by the Brooklyn Wharf & Warehouse Co.

BROOKLYN, N. Y.—Bids are asked by the department of correction, at 148 East 20th St., New York, until July 2 for new roofing and skylights at the Kings County Penitentiary, in the Borough of Brooklyn; two bonds required, $2,000 each.

BUFFALO, N. Y.—Bids are being received for building a new roof for the Erie county jail building. John R. Veeder, Chn. Bd. of Supervisors.——George J. Metzger has prepared plans for a 5-story brick warehouse for M. Steffan's Sons.——Robert A. Wallace has prepared plans for a new school building for the city, to cost $40,000.

LOCKPORT, N. Y.—Bids are asked until June 30 for the erection of a 2-story stone cottage for the Home for the Friendless. Trustee, John E. Pound.——The Buffalo & Lockport Electric Ry. Co. will build a terminal station and car barns here, the station to cost $10,000 and the car barns $5,000.

NEWARK, N. Y.—Bids are asked until July 11 for erecting a cottage dormitory at the State Industrial Asylum; bond required, $10,000. S. N. Gallup, Chn. Com., 734 Granite Bldg., Rochester, N. Y.; Joseph C. Blady, Arch.

NEW YORK, N. Y.—Bids are asked by the board of education, at 585 Broadway, until June 27, for making alterations, repairs, etc., at public schools Nos. 8, 11, 16, 17, 21, 23, 28, 32, 51, 54 and 58.——Press reports state that a 10-story stone, terra cotta and brick office building will be erected at Broadway and Walker St., at a cost of about $250,000. Arch., William H. Birkmire.——Plans have been filed by Mrs. F. V. N. Burling, 84th St. and West End Ave., for a 7-story brick hotel building at 296 and 302 Central Park West, to cost $240,000. Arch., John R. Hinchman, 393 West End Ave.; by Henry Miller, 709 East 139th St., for three 5-story brick flat buildings on 139th St., near Alexander Ave., to cost $72,000. Arch., Harry T. Howell, 748 East 138th St.; by Schmuck & Montag, 2,577 3d Ave., for four 5-story brick flat and store buildings at 3d Ave. and Teasdale Place, to cost $85,000. Arch., Edward Wenz, 1,491 3d Ave.; by Sauer, Gross & Herbener for eight 5-story brick flat and store buildings at Amsterdam Ave. and 91st and 92d Sts., to cost $220,000. Archs., Neville & Bagge, 217 West 125th St.; by John McLaughlin, 346 East 81st St., for six 5-story brick flat buildings on 82d St., near 2d Ave., to cost $108,000. Arch., Charles Stegmayer, 306 East 82d St.; by the Society of New York Hospital for a 9-story brick hospital and dwelling at 10 and 12 West 16th St., to cost $300,000; also for a 2-story brick governor's building at 8 West 16th St., to cost $80,000, and a 6-story brick ambulance department and laundry building, to cost $90,000. Archs., Cady, Berg & See, 31 East 17th St.; by W. C. Bolton, 2 and 4 Wall St., for seven 5-story brick flat buildings at 140th St. and 7th Ave., to cost $150,000. Arch., Henry Anderson, 1,180 Broadway; by William Kaubitzsch for three 5-story brick flat buildings at 532 to 536 West 44th St., to cost $60,000. Arch., Solomon D. Cohen, 203 Broadway.

NEW YORK, N. Y.—Bids are asked by the fire department, at 157 and 159 East 67th St., until July 6, for constructing and erecting a building for the department on Broome St., near Elizabeth St.; two bonds required, $12,500 each.——Plans have been filed by Henry Corn, 150 5th Ave., for a 10-story brick business building at 19th St., to cost $425,000. Arch., Robert Maynicke, 725 Broadway; by Margaret A. Shephard, Scarsborough, N. Y., for a 5-story brick dwelling house at 5 and 7 East 66th St., to cost $150,000. Arch., R. H. Hunt, 28 East 21st St.

TROY, N. Y.—The following are the lowest bidders for the construction of the new church building for St. Mary's Church; Arch., F. M. Cummings: For carpenter work, Bulmer & Haynes, $23,000; mason work, Edward Kelly, $27,000; painting, G. J. Brennan, $3,000; plumbing, M. J. Healy, $602.

TROY, N. Y.—The erection of a new school building in place of the present structure at 3d and Adams Sts., has been authorized by the council. Plans and specifications have been approved; estimated cost, $50,579.

UTICA, N. Y.—Plans have been prepared for Northrup & Latcher, according to reports, for a 7-story brick and stone apartment building to be erected in this city. Arch., John C. Burne, 101 West 42d St., New York.

BLOOMFIELD, N. J.—Press reports state that Peter Moir, William R. Raab and George W. Williams were the lowest bidders, respectively, for masonry, carpentry and plumbing work for the new $30,000 Brookside school building for the second ward. Arch., C. G. Jones, 280 Broadway, New York.

LONG BRANCH, N. J.—It is reported that estimates are now being received for the construction of the new high school building, to cost about $30,000. Daniel Edwards, Chn. Bldg. Com.

ORANGE, N. J.—Plans are asked until June 25 for a 12-room school building to be erected at this place, to cost about $40,000. E. M. Canfield, Chn. Bldg. Com., 265 High St.

PHILADELPHIA, PA.—Thomas Reilly, 1,606 Thompson St., has received the contract for erecting a new school building for the Church of the Gesu, at 17th and Stiles Sts., to cost about $200,000. Arch., E. F. Durang, 1,206 Chestnut St.——It is reported that plans have been prepared for a 6-story apartment building to be built at 3,200 Arch St. by John D. Pharoh, 1,414 South Penn Square. Arch., Harry Peale, Jr., Harrison Bldg., 15th and Market Sts.——The following bids were received June 15 for repairs to brick work of boiler setting, etc., at the U. S. post-office and court-house building at Philadelphia.

John Baizley, Philadelphia	$3,563	6 weeks
Joseph Scholl, Philadelphia	3,791	7 weeks
Geo. Haigh, Philadelphia	3,915	56 days
Wm. Moore, Philadelphia	4,077	52 days
Jno. U'Rombe, Chester, Pa	3,657	8 weeks

POTTSVILLE, PA.—Bids are asked by the supervising architect, Washington, D. C., until July 9, for the construction (except heating apparatus) of the post-office building in this city.

ANNAPOLIS, MD.—Bids are asked until June 23 for constructing four dwellings at the Naval Academy. Chas. H. Allen, Acting Secy.——Bids are asked until July 1 for the erection of a building at St. John's College; bond required, $10,000. J. Wirt Randall, Chn. Bldg. Com., Annapolis.

WASHINGTON, D. C.—Bids are asked until June 30 for new boilers, repairs to heating and power plants, etc., of the U. S. Treasury Building, Winder Building and Marine Hospital (Butler) Building in this city. James Knox Taylor, Supervising Arch., Washington.——The following bids were received June 17 for repairing and reinforcing the roof of silver vault, north court of Treasury building; time, 4 months: Snead & Co. Iron Works, Louisville, Ky., $8,921; Wm. H. Ellis, New York, $9,415; Frank L. Hanvey, Washington, $9,000; Richardson & Burgess, Washington, $8,820; Geo. H. Corbett, Washington, $6,350; Jno. T. Walker, Washington, $8,641.

MONTGOMERY, ALA.—Plans are being prepared, according to reports, for a new office building and warehouse for the Western Ry. of Alabama; estimated cost, $70,000. G. C. Smith, Pres. and Gen. Mgr., Atlanta, Ga.

CLARKSVILLE, TENN.—Bids are asked by the supervising architect, Washington, D. C., until July 8 for a low-pressure steam heating and ventilating apparatus for the post-office building in this city.

AKRON, O.—Bids are asked by the supervising architect, Washington, D. C., until July 15 for the construction (except heating apparatus and electric wire conduits) of the post-office building in this city, as stated in our advertising columns.

CLEVELAND, O.—Bids are asked until July 6 for the plumbing and gas piping for the new children's hospital building at the City Infirmary on Scranton Ave. Wm. J. Akers, Director of Charities.

WYANDOTTE, MICH.—Bids are asked until July 2 for alterations to be made to the First ward school building. Joseph Girardin, Secy. School Bd.; E. J. Harding, Arch., Wyandotte.

CHICAGO, ILL.—Bids are asked by the board of education, Schiller Bldg., until June 24, for building an addition to the Northwest Division high school building, at Potomac and Claremont Aves., etc. Arch., Normand S. Patton, 1117 Schiller Bldg.——W. A. & A. E. Wells, Chamber of Commerce Bldg., have been awarded the contract for constructing a 10-story stone building at 268 and 270 Franklin St., to cost about $160,000. Archs., Holabird & Roche, Monadnock Block.

FARMER CITY, ILL.—Bids are asked until June 30 for erecting a brick church building for the Methodist Church of this city. W. W. Murphy, Chn. Com.; Samuel A. Bullard, Arch., Springfield, Ill.

PEORIA, ILL.—Plans have been accepted and the contract of erection awarded to Edward D. Gleason, of Chicago, for a new building for the Peoria Asylum for the Incurable Insane, to cost about $155,000.

SUMMIT, ILL.—Bids are asked until July 5 for the construction of a village hall. James Johnstone, Village Clk.

CHARLES CITY, IA.—Bids are asked until July 7 for ventilating and heating the court house. W. D. Lindaman, County Audr.

GRACEVILLE, MINN.—Bids are asked by the board of education until June 29 for erecting a new 2-story frame high school building at this place. Pres., F. M. Bergen; Arch., E. Strassburger, 78 East Dearborn St., St. Paul, Minn.

MINNEAPOLIS, MINN.—Bids are asked by J. A. Smith, 705 Nicollet Ave., Minneapolis, Minn., until June 25 for erecting a brick business building. Archs., Schuler Bros., Wahpeton, N. Dak.

ST. PAUL, MINN.—P. H. Donovan & Son, of St. Paul, have been awarded the general contract for erecting an addition to the Union Ry. Co.'s station, at $55,000. The Milwaukee Bridge & Iron Co. received the contract for alterations to the train shed, etc., at $11,000.

GRAND FORKS, N. DAK.—Anderson & Hunter, of Grand Forks, have been awarded the contract for erecting the Hotel Dacotah, to cost about $60,000. Arch., J. W. Ross.

ANACONDA, MONT.—Dolan & Hamil have been awarded the contract for erecting the new court house, at $96,750. Other bidders were Martin Hughes, $96,980, and C. E. H. Campbell, $103,057.

ALBUQUERQUE, N. MEX.—A fire in this city June 19 destroyed the Grant Opera House, causing a reported loss of $200,000; insurance, $127,000.

SEATTLE, WASH.—The following bids were received June 11, by Capt. W. W. Robinson, Jr., Asst. Q. M., for the construction of barracks and officers' quarters at the Magnolia Bluff army post; the lowest bid put in for the contract for the whole work, which includes the construction and piping for gas and heating apparatus, was Nichols & Crothers, of Seattle, and Tacoma: Nichols & Crothers, for the entire contract, $82,000; for construction of buildings, $69,500; Gribble & Dushamel, Tacoma, Wash., for construction, $69,983; W. L. Prather, Jr., Oakland, Cal., for entire contract, $105,428; for construction, $91,056; C. H. Parmlee, Spokane, for heating, $7,420; Wm. Gardner, Ta-

coma, for heating, $7,920; F. H. Goss, Tacoma, for construction, $85,000; Erickson & Rosleaf, Seattle, for construction, $83,000; Heide & McAdams, Everett, Wash., for construction, $69,981.

AGNEW, CAL.—Bids are asked until July 13 for erecting two brick cottages for Agnew State Hospital. T. S. Montgomery, Secy. Bd. of Mgrs., San Jose, Cal.

MENDOCINO, CAL.—Bids are asked until July 9 for erecting an administration building for the Mendocino State Hospital. Secy., W. W. Cunningham, Ukiah, Cal.

TRACY, CAL.—A fire in this city June 19 destroyed the business portion of this town, causing a reported loss of $87,000.

STOCKHOLM, SWEDEN.—We are informed that plans and specifications are asked by the government of Sweden until December 31, extension of time from August 31, for a railway station, junctions, etc., to be erected in this city. Address August Peterson, Royal Swedish and Norwegian Vice-Consul, Washington, D. C.

WATER-WORKS.

GREENVILLE, N. H.—The water committee is reported as making arrangements for constructing a 20,000-gallon reservoir at the artesian well, putting in a windmill and pump and laying 4-in. pipe.

ATTICA, N. Y.—It is stated that C. B. Benedict and others of this place are considering the question of building new works.

ROCHESTER, N. Y.—Bids are asked until June 28 for excavating and laying water pipe in 18 streets. C. M. Beattie, Clk. Executive Bd.

RIDGEWOOD, N. J.—Bids are asked until July 27 for furnishing a supply of pure drinking water, as stated in our advertising columns. Jas. Cornelius, Pres.; H. G. Ward, Village Clk.

VINELAND, N. J.—The Vineland Water & Electric Power Co. has been incorporated with a capital stock of $20,000, of which $1,000 is paid in; incorporators, Aug. M. Halsted, Rye, N. Y.; Geo. M. Todd, Vineland, and Mrs. A. M. Barbour, Madison, Ind.

CAMBRIDGE SPRINGS, PA.—Bids are asked until July 8 for furnishing the materials and for constructing the proposed works, as described in our advertising columns. Engr., J. F. Witmer, Buffalo, N. Y.; Clk., Geo. L. Wade.

CONNELLSVILLE, PA.—The council has named Rockwell Marietta as arbitrator in regard to the purchase of the works owned by the American Water-Works & Guarantee Co., Pittsburg, Pa. S. M. Foust, Borough Engr.

PHILADELPHIA, PA.—The following water companies were incorporated June 20, each with a capital stock of $1,000, of which $100 is paid in; the Schuylkill Township Water Co., to operate in Schuylkill township, Chester county; Citizens' Water Co., Whitemarsh township, Montgomery county; Peoples' Water Co., Abington township, Montgomery county; North Springfield Water Co., Springfield township, Montgomery county; Consumers' Water Co., Plymouth township, Montgomery county; Upper Dublin Water Co., Upper Dublin township, Montgomery county; Moreland Water Co., Moreland township, Montgomery county; Dewey Water Co., Upper Merion township, Montgomery county. Incorporators, Wm. H. Miller, Media, Pa.; Geo. M. Booth, Chester, Pa.; Nathan B. Cox, Philadelphia; Geo. M. Bunting, Treas., Chester; H. Bayard Hodge, 112 North Broad St., Philadelphia.

PHILADELPHIA, PA.—Bids are asked until June 27 for installing a pumping engine in the filter-room of the courtyard. S. C. Perkins, Pres. Comrs. of the Erection of Public Bldgs.

SHARPSVILLE, PA.—We are informed that the following bids were received, June 9, by J. B. Strawn, Engr., Salem, O., for furnishing the material and for constructing the works, as advertised in Engineering News:

Items.	Standard Boiler & Bridge Co., Bellaire, O.	Cronin & O'Herron, Pittsburg, Pa.	Chandley Bros. & Co., Beaver Falls, Pa.	Phoenix Construction Co., Chicago, Ill.
Pump house	$2,280	$2,590	$2,300	$2,400
Reservoir	...	1,429	1,150	1,200
Pumps and boilers complete	3,078	3,150	3,206	2,750
Stand-pipe	1,730	1,793	1,885	1,875
Cast-iron pipe & specials	9,150	9,149	9,574	9,236
Hydrants	1,400	1,575	1,400	1,680
Valves and valve boxes	522	499	584	674
Pipe laying	5,653	5,954	5,571	5,315
Drinking fountains	100	201	250	218
Total	$23,422	$25,100	$25,290	$25,350

Pumping Machinery and Boilers.—Two compound pumps, duplex, of 750,000 gallons each: H. R. Worthington, New York, $1,300 f. o. b.; Snyder-Hughes Pump Co., Cleveland, O., $1,800; Barr Pump Co., Philadelphia, $2,775 and $2,950; Laidlaw-Dunn-Gordon Co., Cincinnati, $1,820 f. o. b.; Stilwell-Bierce & Smith-Vaile Co., Dayton, O., $2,360, $2,760 and $2,680. Two simplex-duplex pumps, 750,000 gallons each: H. R. Worthington, $900 f. o. b.; Barr Pump Co., $1,900; Laidlaw-Dunn-Gordon Co., $1,290 f. o. b.; Stilwell-Bierce & Smith-Vaile Co., $3,132. Two boilers and pumps erected: H. R. Worthington, $3,200; Snyder-Hughes Pump Co., $3,050; Barr Pump Co., $4,150 and $4,300; Laidlaw-Dunn-Gordon Co., $3,400. Two power pumps, 750,000 gallons: Gould's Mfg. Co., Seneca Falls, N. Y., $2,360 f. o. b.; two of 500,000 gallons each $1,124: Rumsey & Co., Ltd., Seneca Falls, N. Y., $2,610 and $1,517, respectively; Deming Pump Co., Salem, O., $1,690, and to erect, $430 additional. Two gas engines, 40-HP. each: Springfield Gas Engine Co., Springfield, O., $1,100 f. o. b.; Westinghouse-Church-Kerr & Co., Pittsburg, $2,772 for one engine and $4,834 for two. Standpipe: Warren City Boiler Works, Warren, O., $1,885; Phoenix Construction Co., Chicago, Ill., $1,875; Standard Boiler & Bridge Co., Bellaire, O., $1,730; Cronin & O'Herron, Pittsburg, Pa., $1,795. The contract was let to the Standard Boiler & Bridge Co., Bellaire, O. Time for completion, 90 days. The material will, in part, consist of Snyder-Hughes Pumps, Bourbon hydrants and valves and valve boxes, Cast-iron pipe, James B. Clow & Son, $15.20 per ton of 2,000 lbs. Other bids on pipe, American Pipe & Foundry Co., $15.95; Addyston Pipe & Steel Co., $15.40. J. B. Strawn, Engr., Salem, O.

WASHINGTON, D. C.—Congress has appropriated $594,421 to complete the tunnel running from the distributing reservoir and the reservoir near the Soldiers' Home grounds. This is known as the Lydecker Tunnel. Two years ago a commission authorized by congress cleared out and tested the tunnel, and advised its completion. This item in the District appropriation bill has been fought many years.

WASHINGTON, GA.—Bids are asked until July 1 for building pump house, supplying a pump and boiler, 40,000-gallon steel tank, tower, 1½ miles of 8-in. cast-iron water pipe, valves, etc., for the works, for the Washington Water-Works Co.; estimated cost, $5,000. Consult. Engr., Walter D. Thomas, Savannah, Ga.; Pres., J. R. Dyson.

MONTGOMERY, ALA.—Bids are asked until July 16 for constructing about 10 miles of cast-iron water mains, etc., as stated in our advertising columns. R. H. Somerville, Cy. Treas.

CUYAHOGA FALLS, O.—D. F. Fehmby, Mayor, writes us that this place voted June 18 against issuing $70,000 in bonds for works.

EVANSVILLE, IND.—Bids are asked by the water board until July 1 for constructing the boiler and engine houses for the new water-works. The smokestack, to be of steel, will be 200 ft. high and 12 ft. in diameter at the base and 8 ft. at the top; check, $1,000. Fred Grote, Chn. Trustees.

LEBANON, IND.—This place proposes to extend the water mains about 1,000 ft., according to reports. Supt., Wm. A. Tiell.

ALPENA, MICH.—Local papers state that the Alpena City Water Co. proposes to put in an electric pumping plant.

CENTRAL LAKE, MICH.—The council is reported as considering estimates for the proposed works. Population, 200.

AMERY, WIS.—This place will vote July 1 on the question of putting in a pumping plant at the works; estimated cost, $2,000. M. A. Frissell may give information. J. F. Snyder, Clk.

AUGUSTA, WIS.—An election is reported to have been called for July 6 to vote on the question of issuing $12,000 in bonds for works.

BLAIR, WIS.—This place is reported to have voted to put in works.

OSHKOSH, WIS.—Press reports state as follows: There is a proposition on foot to supply Oshkosh with water from Green Lake. W. G. Maxey has announced that he will immediately have surveys made for the purpose of ascertaining measurements, the amount of the fall between Green Lake and this city, etc. Estimated cost, $200,000.

ALDEN, IA.—Press reports state that bids for building the proposed works will soon be asked by the council. Population, 1,000.

BOONE, IA.—Bids are asked until July 6 for furnishing two 150 HP. boilers for the water-works; check, $300. W. T. Finley, Cy. Engr; J. A. Hull, Cy. Clk.

CLINTON, IA.—Chas. B. Chase, Cy. Engr., writes us that the council will insist on extensive improvements in the distribution system of the works of the Clinton Water-Works Co., and if these are not commenced at once will take steps to terminate the contract, and either grant a franchise to a new company, or else build a city plant. As a compromise the company has proposed to lay several miles of larger mains. Population, 25,000. G. D. McDaid, Mayor.

DES MOINES, IA.—Press reports state as follows: An agreement was reached June 16 by which the city is to become the owner of the water-works, this being a victory in Mayor McVicar's campaign for municipal ownership. The agreement was reached by representatives of the city and John A. Cole, of Chicago, Judge Underwood, of New York city, and Thomas Bird, of Portland, Me., representing the bondholders. It provides that the city is to pay $850,000 and by that secure full control of the plant July 1, 1899. The company originally asked over $1,000,000. The council will in special session ratify the contract and the voters will then pass upon it.

EMMETSBURG, IA.—D. E. Collins, Cy. Clk., writes us that the contract for furnishing about $3,000 worth of water pipe will be let about July 1. L. Stuchmer, Mayor; Henry Kneer, Engr. Water-Works; J. F. Neary, Chn. Com.

GILMORE CITY, IA.—This city is reported to have voted to issue $4,500 in bonds for works.

OXFORD JUNCTION, IA.—This place voted June 6 to build works. The town can be bonded for only $3,000. Population, 1,800. J. K. Bloom, S. S. Gieler and H. Klahn are on the committee.

FOSSTON, MINN.—Bids are asked until July 1 for furnishing the materials and for building the works and electric light plant; estimated cost, $12,000. Engr., C. F. Loweth, 94 E. 4th St., St. Paul, Minn., and Davenport, Ia.; Recrdr., N. J. Anderson.

LANESBORO, MINN.—This place will soon vote on the question of issuing bonds for 8,000 ft. of 6 and 8-in. mains, a steam pump, etc. O. M. Habberstad, Village Clk.

CEDARVALE, KAN.—It is reported that this place will soon issue $5,000 in bonds for works.

BERESFORD, S. DAK.—Bids are asked until July 1 for the purchase of $12,000 of 5% water-works bonds. J. Vermard, Jr., Cy. Audr., writes us that this place voted June 6 to issue the bonds. Work will be begun as soon as possible. Up to June 13 no plans or specifications had been prepared.

GREAT FALLS, MONT.—The council has rejected the latest offer of the Great Falls Water Co. for the sale of its works to the city for $400,000. The council has offered to buy the works for $375,000, but if failing in this, will probably take steps to secure a municipal plant. Aldermen Grills, McDonnell and Wadsworth.

CAMERON, MO.—The council is again considering the question of building works, at a cost of about $20,000. Engr., Geo. Cadogan Morgan, 143 La Salle St., Chicago, Ill.; Cy. Clk., J. E. Goodrich.

HELENA, MONT.—The Helena Water-Works Co. was incorporated June 11 with a capital stock of $1,500,000, with $1,000 paid in; incorporators, Michael Gavin, 27 William St., New York; Wilmot M. Paterson, 44 Pine St., New York, and Francis R. McManus, 250 Washington St., Jersey City, N. J.

DENVER, COLO.—Bids are asked by the state capital commission until June 30 for sinking an artesian well for supplying the capitol building and grounds with water.

ANTELOPE, ORE.—C. M. Dial, Olympia, Wash., and A. D. Sheldon, Chehalis, Wash., are reported to have been awarded the contract for building the proposed works at about $4,500.

BAKER CITY, ORE.—C. H. Stuller, Water Comr. writes us that a special election will be held June 25 to vote on the question of issuing $124,000 in bonds for gravity works.

GLENDORA, CAL.—The West Clendora Water Co. has been incorporated with a capital stock of $25,000, of which $7,000 is paid in. Directors, L. M. La Fetra, Eber Woolman and D. C. Morton.

MONROVIA, CAL.—Bids are asked until June 25 for furnishing 5,500 ft. of 12-in. steel water pipe, a 100-HP. water tube boiler, a deep-well pump, etc., for the water-works. Engrs., Sawyer & Arthur, Byrne Block, Los Angeles, Cal. Cy. Clk., W. A. Walker.

POCATELLO, IDAHO.—It is stated that the council has renewed the franchise of the Pocatello Water Co. on condition that within 30 days work be commenced on the proposed improvements, to cost about $30,000.

ANDOVER, N. B.—Bids are asked until June 30 for furnishing the material and for constructing the proposed works; estimated cost, $8,000. Postponed from June 4. T. J. Carter, Secy.

TANGIER, MOROCCO, AFRICA.—Bids are asked by the secretary of state for foreign affairs, London, England, and by the hygienic commission, Tangier, until July 31, for furnishing this city with a supply of drinking water, according to reports; population, 20,000.

IRRIGATION.

WARRENTON, N. C.—We are informed that inquiry is being made as to the cost of establishing an irrigation plant. Makers and dealers willing to give definite information as to cost, quality and capacity of pipes and fittings, power pumps, hydrants, hose, etc., may address C. H. Scott, Civil Engr., Warrenton.

NEW COMPANIES.—Twin Lakes Land & Water Co., Denver, Colo., $500,000; to operate in Pueblo, Otero and Kiowa counties; Henry Koons, James A. Roberts, Andrew Caret, Dwight W. Hodge, Phillip Bachert, William H. Johnson, John M. Provost and L. F. Messer.

Laird Land & Ditch Co., Denver, Colo.; $50,000; to operate in Arapahoe and Yuma counties; C. B. Kountze, G. B. Beyer and F. N. Bancroft.

SEWERAGE.

ANDOVER, MASS.—J. E. Smith, Secy. Sewer Com., writes us that the system will include six miles of 15 to 6-in. pipe sewers, average cut, 8½ ft.; a mile of 12-in. cast-iron pipe, an inverted syphon, six acres of filtration beds, settling tanks, etc.; estimated cost, $80,000. Engrs., McClintock & Woodfall, 15 Court Square, Boston; Chn. Com., Wm. L. Jenkins.

WORCESTER, MASS.—The committee is considering the question of recommending the appropriation of $70,000 for continuing the construction of the separation system on the west side.

HERKIMER, N. Y.—Francis K. Baxter, Engr., Utica, N. Y., has recommended the construction of a separate system for storm water drainage. E. W. Sluyter, Clk. Municipal Comn.

LANCASTER, N. Y.—Bids are asked until July 7 for making plans for a system and for a sewage disposal plant, as stated in our advertising columns. Geo. Bingham, Chn. Bd. Comrs.

MOUNT VERNON, N. Y.—Bids are asked until July 5 for constructing pipe sewers in a number of streets. Wm. N. Hoyt, Cy. Clk.

PLATTSBURG, N. Y.—Bids are asked until July 5 for constructing sewers in several streets. Mr. Lee Rockwell, Village Clk.

AVALON, PA.—Bids are asked until July 5 for constructing 24 to 8-in. pipe sewers in a number of streets. Engr., Jno. McBride, Fidelity Bldg., Pittsburg; Chn. Com., J. A. Toy, 621 Orchard St., Avalon.

BELLEVUE, PA.—This place voted June 14 to issue $38,000 in bonds for sewers. Wm. Martin, Chn. Com.

KINGSTON, PA.—This borough contemplates constructing sewers. Plans have already been prepared. Engr., Thos. Wright, Luzerne, Pa.

LANCASTER, PA.—Bids are asked until June 28 for constructing 4,500 ft. of 24 to 18-in. pipe sewers. Thos. C. Wiley, St. Comr.; Jos. S. Zook, Chn. Com.

WILKINSBURG, PA.—Bids are asked until June 27 for constructing 24 and 8-in. pipe sewers in certain streets, etc. Engrs., Frease & Sperling, Wilkinsburg.

WILMINGTON, DEL.—Arrangements are being made by the street and sewer department for constructing sewers in a number of streets.

HYATTSVILLE, MD.—We are informed that this place recently voted against constructing a system.

NEWPORT NEWS, VA.—We are informed that the council will soon be ready to ask for bids for constructing the proposed system. The bonds have already been sold.

GOLDSBORO, N. C.—Bids are asked until July 5 for the purchase of $30,000 of 30-year 6% sewer bonds. D. J. Broadhurst, Cy Clk.

SAVANNAH, GA.—Bids are asked by the committee on drainage until July 5 for constructing a complete system of house drainage, as stated in our advertising columns.

LEXINGTON, KY.—The board of commissioners of the Eastern Kentucky lunatic asylum has awarded the contract for constructing a system for the asylum grounds to Thos. Smith & Co., Lexington, at about $30,000.

CLEVELAND, O.—Bids are asked until June 30 for constructing sewers in six streets. Geo. A. Warden, Dir. Pub. Wks.

EAST CLEVELAND, O.—Bids are asked until June 27 for constructing sewers in 69 streets. H. B. Chapman, Clk.

HAMILTON, O.—Plans have been filed for a storm sewer in Market St., from Water to Fourth St. M. O. Burns, Cy. Clk.

ALEXANDRIA, IND.—It is proposed to construct 12 and 10-in. pipe sewers in a number of streets. J. M. Tomlinson, Cy. Clk.

CRAWFORDSVILLE, IND.—F. Hoffman, Cy. Engr., writes us that everything in connection with the proposed system has been postponed until next year.

INDIANAPOLIS, IND.—Bids are asked until June 24 for constructing a main sewer in Beecher St. M. A. Dowrig, Chn. Bd. Pub. Wks.

DETROIT, MICH.—Bids are asked until June 23 for constructing 1,666 ft. of 38 x 57-in. brick sewer in Townsend St. and 1,674 ft. of 38 x 57-in. brick sewer in Cameron Ave. D. W. H. Moreland, Pres. Pub. Wks.

MARSHALL, MICH.—Henry E. Riggs, The Nasby, Toledo, O., is reported to have been engaged to prepare plans for the proposed system. Aldermen Joy and Anson are on the committee.

LAKE BLUFF, ILL.—D. Witherstone, Clk., writes us that a special assessment law has defeated the proposition of constructing a system. It is not known at present what will be done, but other plans are being contemplated. The committee consists of T. R. Butman, B. J. Cloes and Thos. Pearson. Engr., J. Anderson, Waukegan, Ill.

DES MOINES, IA.—Geo. M. King, Cy. Engr., writes us that the city proposes to put in a sewer in the southeast portion of the city, at a cost of about $1,000; a sewer in North St., from 3d to 5th St., and 15 and 12-in. pipe sewers in one of the other streets.

DES MOINES, IA.—It is proposed to construct 15-in. pipe sewers in certain streets. John McVicar, Mayor; E. W. Woodruff, Cy. Clk.

LAMBERTON, MINN.—Bids are asked until July 7 for furnishing and laying 755 ft. of 10-in. pipe, and 565 ft. of 6-in. water main. J. H. Gebhard, Village Recdr.

ST. PAUL, MINN.—Bids are asked until June 27 for constructing sewers in four streets. John Copeland, Pres. Bd. Pub. Wks.; C. H. Bronson, Clk.

LINCOLN, NEB.—The question of building sewers in a number of streets is being considered by the council. L. L. Lindley, St. Comr.

NEWTON, KAN.—The question of building sewers in certain streets at a cost of about $7,000, is being considered. Engr., R. E. Burns, 906 New England Bldg., Kansas City, Mo.; Chn. Com., Dr. S. D. Bennett.

GRASS VALLEY, CAL.—This place is considering the question of building a system.

SAN RAFAEL, CAL.—S. H. Barston, councilman, writes us that an election has been called for July 16 to vote on the question of issuing $26,000 in bonds for 8,000 ft. of pipe sewers. Bids for furnishing this pipe will soon be asked. Geo. L. Richardson, Cy. Engr.; Henry Eickhoff, Chn. Com.

GARBAGE DISPOSAL—STREET CLEANING

PROVIDENCE, R. I.—Bids are asked until June 28 for removing ashes and night soil from the public buildings for one year. Albert T. Mansfield, Supt. Pub. Bldgs.

ST. LOUIS, MO.—The council has passed a bill authorizing the board of health to make a 10-year contract for collecting dead animals and garbage. The present contract with Col. Edward Butler expires July 14.

STREETS AND ROADS.

BOSTON, MASS.—Bids are asked until June 27 for constructing about 1,930 lin. ft. of macadam road. Benj. W. Wells, Supt. Sts.

SPRINGFIELD, MASS.—Chas. M. Slocum, Cy. Engr., writes us that $40,000 has been appropriated for paving and macadamizing, etc., but that plans for work have not yet been determined.

BLOOMFIELD, CONN.—Bids are asked until June 30 for macadamizing Bloomfield Ave. G. W. Ladd, First Selectman.

NEWINGTON, CONN.—Bids are asked until June 29 for grading and macadamizing. J. H. Fish, First Selectman.

MERIDEN, CONN.—Bids are asked until June 29 for macadamizing on one road. E. A. Leigh, First Selectman.

SOUTH WINDSOR, CONN.—Bids are asked until July 2 for grading and macadamizing the Ellington Road. Harry S. Powers, First Selectman.

TORRINGTON, CONN.—Bids are asked until July 1 for about 15,000 cu. yds. excavation on the road from Torrington to Winsted. C. M. Johnson, First Selectman.

OLD FORGE, N. Y.—The county commissioners have awarded a contract to John H. Nelson and G. G. Harter, Herkimer, at $14,871 for constructing a road from this place to Eagle Bay. D. C. Wood, Engr., Herkimer.

MOUNT VERNON, N. Y.—Bids are asked until July 5 for grading Crary Ave. from East Sidney Ave. to Prospect Ave. Wm. N. Hoyt, Cy. Clk.

NEWBURG, N. Y.—The board of public works is in favor of a proposition to pave Liberty St. with either granite or asphalt.

NEW ROCHELLE, N. Y.—The board of trustees has passed a resolution to investigate the cost of brick paving and macadamizing in certain streets. An election will be held to vote on the question of issuing about $100,000 in street bonds. President Clarke may be addressed.

NEW YORK, N. Y.—Bids are asked until June 30 for resurfacing the Coney Island Concourse between Ocean Parkway and West Fifth St. with Trinidad Lake asphalt and keeping the same in repair for five years. Geo. C. Clausen, Comr. Parks, Arsenal Bldg., Central Park.

PELHAM, N. Y.—Bids are asked until July 1 for furnishing and constructing about six miles of blue stone flagging and for excavating and filling at North Pelham, as stated in our advertising columns. V. Barker, Trustee.

NORWICH, N. Y.—Henry C. Allen, Engr., 424 Kirk Block, Syracuse, informs us that the lowest bidders for paving Broad and Main Sts. were as follows: Eugene Fee, Park wire-cut brick and trap-rock macadam, $48,392; Park wire-cut brick and limestone macadam, $47,132. Columbia Construction Co., asphalt and trap-rock or limestone macadam, $51,220; Trinidad Lake asphalt, five-year guarantee, $54,497; ten-year guarantee, $60,922. Alcatraz Co., common and wire-cut bricks, with Park brick, $50,450; repressed bricks, with Clearfield block, $49,300; blocks, with Park block, $53,365.

PATCHOGUE (L. I.), N. Y.—It has been voted to pave a section of North Ocean Ave. with brick, at a cost of $5,000. The contract will probably be awarded to the Eastern Brick Paving Co., Catskill.

ROCHESTER, N. Y.—Bids are asked until June 27 for the following paving: Columbia Ave., asphalt, estimated cost $42,500; Post St., macadam, $7,500; Tremont Place, asphalt, $1,550. Edward A. Fisher, Cy. Engr.; C. M. Beattie, Clk.

SCHENECTADY, N. Y.—Ordinances have been presented to the council for paving portions of Park Place and Dock St. with brick, asphalt paving in Delmont Ave. and grading, curbing and flagging in Guysling Ave.

TROY, N. Y.—Bids are asked until June 28 for paving Ninth St. with brick from Hoosick St. to Buckley Place. E. Ogden Ross, Secy. Contracting Bd.

NEWARK, N. J.—Bids are asked until June 30 for constructing about 21,570 sq. yds. of sheet asphalt pavement on concrete in portions of four streets. M. T. McLaughlin, Gen. Supt. Sts.

PATERSON, N. J.—Bids are asked until June 30 for furnishing and delivering broken stone and screenings. Wilson M. Lawson, Chn. Com. County Freeholders.

RIDGEFIELD, N. J.—Bids are asked until July 12 for about 3,000 lin. ft. of macadam road on Edgewater Ave., as stated in our advertising columns. C. B. Wilson, Borough Clk.

CHESTER, PA.—It has been decided to pave Market St. with brick. Address Councilman Robt. E. Ross.

LANCASTER, PA.—Bids are asked until June 28 for 26,000 sq. yds. of brick paving and 6,000 sq. yds. of Belgium block. Joseph S. Zook, Chn. Com.; Thos. C. Wiley, St. Comr.; E. S. Smeltz, Cy. Clk.

MEADVILLE, PA.—D. T. McKay, Jr., Cy. Clk., writes us that an ordinance establishing the grade of Water St. and a petition to pave Terrace St. with brick have been passed by the council.

FREEPORT, PA.—Sweeney & Houston, Pittsburg, have been awarded a contract to pave 5th St. with Mack fire brick.

WILKINSBURG, PA.—Bids are asked until June 27 for grading and paving in Green St. and North Ave. Frease & Sperling, Borough Engrs.

WILMINGTON, DEL.—Bids were received June 21 for constructing about 30,000 sq. yds. of brick paving. Harvey J. Wiley, Secy.

WASHINGTON, D. C.—Congress has appropriated $160,000 for street work.

WASHINGTON, D. C.—Bids are asked by the district commissioners until July 23 for laying cement sidewalks, as stated in our advertising columns.

BALTIMORE, MD.—Bids are asked until June 29 for asphalt paving in Grand St. L. F. Lewis, Cy. Comr.

MANNINGTON, W. VA.—Bids are asked until June 29 for furnishing and constructing brick pavement, etc., for which $40,000 has been appropriated by the street committee. Hoge & Hix, Engrs., Wheeling.

WELLSBURG, W. VA.—Bids are asked until July 5 for brick paving, according to reports. E. A. Sheets, Chn. Com.

ASHLAND, O.—We are informed that bids will be asked about July 30 for constructing about 26,000 sq. yds. of brick or asphalt pavement, on Cottage and Main Sts., estimated cost, $46,000. F. L. Niederheiser, Cy. Engr., J. B. Weddell, Consult. Engr., Mansfield.

ATHENS, O.—Bids are asked until July 9 for improving Vine St.; surety, $200. W. R. Golden, Clk.

BRIDGEPORT, O.—Bids will be asked in July by the street committee for furnishing and constructing brick pavement, curb, etc., to cost about $60,000. Hoge & Hix, Engrs., Wheeling, W. Va.

CALIFORNIA, O.—G. Bouscaren, Engr. Water-Wks., Cincinnati, has submitted an estimate of about $130,000 for grading, masonry and road construction at the Cincinnati Water-Works, in this place.

COLUMBUS, O.—Bids are asked until July 12 for furnishing the material and for the construction and repair of certain roadways. W. H. Halliday, County Audr.

EAST LIVERPOOL, O.—The council is in favor of brick paving for certain streets at a cost of about $5,000 a mile.

OAK HARBOR, O.—Bids are asked until July 5 for the purchase of $22,500 of 5% street improvement bonds. L. E. Meyer, Village Clk.

SWANTON, O.—Bids are asked until July 11 for about 4,500 sq. yds. of brick paving, as stated in our advertising columns. H. E. Riggs, Engr.; F. H. Aldrich, Clk.

VAN WERT, O.—G. L. McKibben, Cy. Engr., writes us that bids will be asked in about four weeks for constructing asphalt pavement and about 30,000 sq. yds. of brick and 7,500 lin. ft. of curb on Main St.

INDIANAPOLIS, IND.—Bids are asked until July 1 for grading and asphalt paving in Roanoke St., Ohio St. and New York St. M. A. Downing, Chn. Bd. Pub. Wks.

SOUTH BEND, IND.—Bids are asked until July 11 for paving the sidewalks in portions of Pennsylvania Ave., Pagan St. and South Michigan St. with cement. L. A. Hull, Cy. Clk.

BAY CITY, MICH.—The board of public works awarded a contract June 13 to Hugh Campbell, at $34,404, for paving Center Ave., from Madison St. to Johnson St., with brick, on concrete foundation.

DETROIT, MICH.—The board of public works has recommended an ordinance to pave portions of 13 streets with cedar block, estimated cost about $123,000.

MUSKEGON, MICH.—R. A. Fleming, County Clk., informs us that J. C. Abbott, Fruitport, is preparing plans for the construction of a road from Muskegon to North Muskegon, to be presented for approval on June 27.

CHICAGO, ILL.—An ordinance will be presented to the board of improvements for about 30 miles of paving, to cost about $1,000,000. Reports state that the Illinois Manufacturers' Association is interested in the movement.

CHICAGO, ILL.—Bids are asked until June 28 for improvements in a number of streets. L. E. M'Gann, Pres. Bd. Local Improvements.

PANA, ILL.—Bids are asked until June 28 for paving in Locust St., as stated in our advertising columns. Warren Penwell, Chn. Bd. Local Improvements.

WAUWATOSA, WIS.—Bids are asked until June 25 for improving Wauwatosa Ave., from Center St. to Kenwood Ave., and furnishing the material. J. D. Warren, St. Comr.

BURLINGTON, IA.—Bids are asked until July 4 for paving portions of North and Smith Sts. with brick; bonds required, $300 and $1,300, respectively. Emmett Steece, Cy. Engr.

DES MOINES, IA.—Bids are asked until July 2 for about 26,000 sq. yds. of brick paving, and 2,700 lin. ft. of Portland cement curb. Geo. M. King, Cy. Engr.

OMAHA, NEB.—A petition will be presented to the council for the improvement of Vinton St., between 20th and 24th Sts.

ST. LOUIS, MO.—Bids are asked until July 5 for grading and paving on Cook Ave., and other streets. Robt. E. McMath, Pres. Bd. Pub. Improvements.

WALLACEBURG, ONT.—Reports state that an election will be held on July 6 to vote on the question of borrowing $5,000 for the construction of granolithic walks. H. E. Johnson, Town Clk.

MANUFACTURING PLANTS.

ASTORIA (L. I.) N. Y.—It is reported that plans have been filed with Commissioner Daniel Campbell for six factory buildings at Franklin and Mill Sts., for the manufacture of Italian onyx and marble into ornamental designs, to cost about $356,000. There are to be two buildings, 154 × 50 ft., each costing $68,000; and four buildings, 44 × 135 ft., each costing $55,000. Mrs. Bertha Volkening, 228 East 44th St., New York, is said to be the chief promoter.

JERSEY CITY, N. J.—A fire in this city June 21 damaged the soap works of the Colgate Soap Co., at Grand, York, Green and Hudson Sts., causing a reported loss of $40,000, mostly on stock and machinery.

HARRISBURG, PA.—The Paxton Rolling Mill, which is a part of the plant of the Central Iron & Steel Co., was burned to the ground June 19, entailing a loss of about $40,000; insurance, $20,000.

PHOENIXVILLE, PA.—The directors of the Phoenixville Industrial Association have awarded the contract for the erection of the new silk mill, on Franklin St., to David Henry, of Paterson, N. J., at $58,983. The building will be of brick, four stories high, 400 × 50. Work will be commenced at once, and the building, fully equipped, is expected to cost about $200,000.

YORK, PA.—Reports state that W. F. Bay Stewart, of York; Samuel Bailey, Lancaster, Pa., and others, contemplate the erection of a match factory in this city.

YOUNGSVILLE, PA.—A fire at this place, June 20, damaged the plant of the Youngsville Mfg. Co., causing a reported loss of $70,000; insurance, $20,000.

GRIFFIN, GA.—Press reports state that the directors of the Kincaid Mfg. Co. have decided to spend $150,000 in enlarging the company's mill.

ENSLEY, ALA.—The Alabama Steel & Shipbuilding Co. is reported to have let the contract for the erection of a new steel plant at Ensley City to the Wellman-Seaver Engineering Co., Cleveland, O.; construction is to begin in 30 days. The mill will have twelve open-hearth furnaces, capable of turning out 1,000 tons of steel a day, and will employ several thousand men; estimated cost, $1,000,000. Pres., N. E. Barker, Pres. First National Bank, Birmingham, Ala.; Vice-Pres., J. K. McDonald, Pres. Elyton Co.

GRAND RAPIDS, MICH.—A fire in this city June 18 destroyed the plants of the Grand Rapids Desk Co. and of the Hake Mfg. Co., causing a loss of about $50,000 to the former company's property and of about $20,000 to the Hake property.

ST. JOSEPH, MO.—It is reported that the National Biscuit Co. will erect a new 5-story brick factory building and make improvements to its present plant, at a cost of $50,000. Arch., E. J. Eckel, Commercial Bldg., St. Joseph.

ILWACO, WASH.—The Aberdeen Packing Co.'s plant at this place was burned June 18 causing a reported loss of $75,000; insurance, about $40,000.

CLOVIS, CAL.—The box factory, planing mill, warehouse and engine plant of the Fresno Flume Irrigation Co., at Clovis, have been destroyed by fire; estimated loss, $[illegible],000; insurance, $15,000.

GAS PLANTS.

FAYETTEVILLE, N. C.—The council has granted a franchise to J. R. Williams and others, to operate acetylene gas works.

ST. LOUIS, MO.—Reports state that the Laclede Gas Light Co. proposes to make certain extensions to its mains.

CHICO, CAL.—The Chico Gas Co. has been awarded a contract for lighting this place with arc lights, according to reports.

NEW COMPANIES.—The following companies have consolidated: Pittsburg Gas Co., East End Gas Co., Franklin Gas Co., Pittsburg, Pa.; Allegheny Gas Co., Allegheny Illuminating Co., Allegheny, Pa.; $11,000,000; Pres., J. H. Reed; Treas., T. H. Given; Secy., P. J. McNulty; Gen. Mgr., Robert Young; Directors, J. D. Callery, M. K. McMillin, T. H. Given, Joshua Rhodes, Pittsburg, Pa.; Alexander Brown, Baltimore, Md.

Little Crab Oil & Mining Co., Allardt, Tenn.; $500,000; to drill for natural gas, oil, etc.; A. I. Fry, Bruno Gerst, Charles R. Schency, T. G. Sherman and Max Colditz.

Richfield Oil Co., Los Angeles, Cal.; $500,000; to acquire and produce oil, etc.; G. Easton, San Francisco; G. W. Parsons, W. L. Valentine, L. Phipps, G. D. Easton, Los Angeles.

MISCELLANEOUS CONTRACTS.

TELEPHONE SYSTEM.—Laporte, Ind.—The council has granted a franchise to the Belle Telephone Co.

FIRE ALARM SYSTEM.—Princeton, Ky.—The council has decided to install an electric fire alarm system, according to reports.

LEVEE WORK.—Woodsdale, O.—Bids are asked until June 30 for levee repairs. Arthur S. Hobby, Engr., 519 Main St., Cincinnati.

TELEPHONE SYSTEM.—Athens, Ala.—A franchise has been granted to the American Telephone & Telegraph Co. to operate in this place.

FIRE ENGINES.—Madoc, Ont.—An election will be held July 14 to vote on the question of purchasing a steam fire engine, according to reports.

DREDGING.—Buffalo, N. Y.—An amount of dredging by the department of public works has been ordered for Buffalo River and various slips.

TELEPHONE SYSTEM.—Detroit, Mich.—Bids are asked by the fire commissioners for a private telephone system; $5,000 has been appropriated.

DRAFTING MATERIALS.—Washington, D. C.—Bids are asked until June 29 for furnishing drafting materials. Jas. Knox Taylor, Supervising Architect.

BATTLESHIPS.—Washington, D. C.—Bids are asked by the navy department until Sept. 1 for constructing three battleships. John D. Long, Secy. Navy.

DRAINAGE.—St. Joseph, Mo.—The board of health is considering the question of draining about 30 ponds, within the city limits. Alderman E. G. Chandlee, Chn.

BONDS.—Chicago, Ill.—Bids are asked until June 29 for the purchase of $200,000 of 3½% sanitary district bonds. Clk., Jos. Reddick, 1110 Security Bldg., Chicago.

COAL WHARF.—Elizabeth, N. J.—The Central R. R. of New Jersey is about to construct a new coal wharf, 2,000 ft. long, and containing four tracks, according to reports.

TELEPHONE SYSTEM.—Stonington, Me.—A hearing will be given June 25 on the question of granting a franchise to the Deer Isle Telephone Co. E. E. Spofford, First Selectman.

FIRE BOAT REPAIRS.—New York, N.Y.—Bids are asked until July 6 for making repairs to the fire boat "New Yorker," surety $150. John J. Scannell, Fire Comr., 157 East 67th St.

PIER.—Philadelphia, Pa.—The Philadelphia & Reading R. R. Co., Twelfth and Market Sts., contemplates the erection of an iron pier at Callowhill St. wharf. It will probably be 550 ft. long.

HYDRAULIC DREDGE.—St. Louis, Mo.—Bids are asked until July 22 for furnishing a self-propelling hydraulic dredge, as stated in our advertising columns. Capt. H. A. Waterman, U. S. Engr.

PILE WHARF.—St. Ann's, N. S.—Bids are asked until June 28 for constructing a pile wharf at this place. E. G. Millidge, Res. Engr., Antigonish, U. S.; E. F. E. Roy, Secy. Pub. Wks., Ottawa.

CABLES.—Cincinnati, O.—Bids are asked until July 1 for furnishing and installing underground cables for electric and telephone circuits of the fire department. C. F. Lakeman, Secy. Fire Trustees.

DRY-DOCK.—Palermo, Sicily.—It is reported that the banking firm of T. & V. Florio, Palermo, has formed a company which is to construct a dry-dock and establish a ship building industry at this place.

PIERS.—Brooklyn, N. Y.—Reports state that negotiations are pending between the Pennsylvania R. R. Co. and the dock board, for the construction of two piers at the Wallabout Market, to cost about $150,000.

FLUME WORK.—Nelson, B. C.—Reports state that the Cariboo Hydraulic Mining Co. has awarded a contract to Poupore & McVeigh, Nelson, for constructing about 11 miles of flume, estimated to cost about $150,000.

TELEPHONE EXTENSION.—Cleveland, O.—The Cleveland Telephone Co., Telephone Bldg., has decided to spend $300,000 in extending its lines, etc. Pres., Chas. J. Glidden; Vice-Pres. and Gen. Mgr., Jas. P. McKinstry.

TELEPHONE SYSTEM.—Bellefonte, Pa.—An ordinance is before the council, authorizing the Central Commercial Telephone Co. to construct a system in this borough. Harry Keller, Pres. Council; F. E. Maginey, Burgess.

FIRE ENGINES AND HOSE WAGONS.—New York, N. Y.—Bids are asked until July 6 for furnishing three fourth-size steam fire engines and four first-size hose wagons. John J. Scannell, Fire Comr., 157 East 67th St.

MORTAR BATTERIES.—Washington, D. C.—It is stated that the Oliver Crosby American Hoist & Derrick Co., St. Paul, Minn., has been awarded a contract by the war department to erect 15 mortar batteries, each battery to cost $5,300.

LEVEE WORK.—Dayton, O.—Bids are asked until June 28 for widening, heightening and strengthening certain levees, as described in our advertising columns. J. L. Baker, Pres. Bd. Cy. Affairs; J. E. Gimperling, Cy. Comptroller.

HARBOR WORK.—Goderich, Ont.—Bids are asked until July 15 for completing the harbor and river work in course of reconstruction at Goderich. Res. Engr., H. A. Gray, Confederation Bldg., Toronto; Secy., Pub. Wks., E. F. E. Roy, Ottawa.

GRANITE STONES.—New York, N. Y.—Bids are asked until July 1 for furnishing about 417 pieces of granite containing about 8,600 cu. ft., to be used in the construction of river walls. J. Sergeant Cram, Comr. Dept. Docks, Pier A, North River.

WATER PIPE.—Cleveland, O.—The Addyston Pipe & Steel Co., Cincinnati, O., has again submitted the lowest bid for furnishing 6,000 tons of cast-iron water pipe at $14.43 a ton in the cars and $14.93 delivered. The other bidders were the American Pipe & Foundry Co., Chattanooga, Tenn., at $15.60 and $16.10 in the cars and delivered, respectively; and the Lake Shore Foundry Co., Cleveland, at $15.10, delivered.

BRICK PAVING.—Albany, N. Y.—T. Henry Dumary has been awarded the contract for 10,520 sq. yds. of brick paving in Green St. at $2.10 a sq. yd. Mulderry Bros. have the contract for 7,400 sq. yds. of brick paving in First St. at $1.79.

BRICK SEWERS.—Springfield, Mass.—We are informed that the following bids were received June 14 for constructing certain brick sewers, as advertised in Engineering News; contract for the Douglas St. sewer, awarded Maloney & Peterson; Bancroft and Chestnut Sts., awarded Daniel W. Mellen; Wm. L. Dickinson, Supt. Sts.; Chas. M. Slocum, Cy. Engr.:

Bids Received at Springfield, Mass., June 14, for Constructing Brick Sewers.

Bidder.	Douglas St. sewer extension. Earth excavation, 2,570 cu. yds.	Brick masonry: Portland cem. mrtr,[1] 38 cu. yds.	Brick masonry: American cem. mrtr. 314 cu. yds.	8-in. underdrain, 860 lin. ft.	Total.	Bancroft and Chestnut St. extension. Earth excavation, 5,080 cu. yds.	Brick masonry: Portland cem. mortr, 89 cu. yds.	Brick masonry: American cem. mortr, 560 cu. yds.	8-in. underdrain, 1,760 lin. ft.	Total.
C. E. Trumbull & Co., Boston, Mass.	$0.90	$11.10	$17.50	$0.40	$8,574	$0.69	$11.10	$12.50	$0.35	$9,146
R. D. Maynard, Springfield, Mass.	.60	16.00	8.00	.25	4,877	.80	10.00	8.00	.25	10,291
George N. Vaughan, Springfield, Mass.	.55	20.00	8.50	.20	5,015	.84	10.25	8.50	.20	9,380
E. R. Patterson, Hartford, Conn.	.70	18.00	9.50	.30	5,724	.88	11.10	8.50	.30	11,306
Cumberland Construction Co., Vallie Falls, R. I.	1.40	15.25	10.25	.50	7,826	1.17	12.25	10.25	.30	13,302
Thomas F. Maher, New Haven, Conn.	.55	21.00	9.00	.20	5,210	...	.....	....	...	.....
Daniel W. Mellen, Springfield, Mass.	.65	17.00	7.75	.15	4,879	.65	9.50	7.75	.15	8,725
Maloney & Peterson, Springfield, Mass.	.59	16.00	8.00	.20	4,908	.72	10.00	8.00	.20	10,094
Samuel W. Flescoln, Reading, Pa.	.74	15.50	8.40	.20	5,300	.63	10.00	8.40	.20	9,874
Frederick E. Shaw, Providence, R. I.	.60	16.00	10.00	.25	5,505	.70	12.00	10.00	.25	12,109
Wm. D. McKenzie, Springfield, Mass.	...	.....	....	...	.....	.67	10.00	8.00	.19	9,108

[1]And Syracuse vitrified paving brick.

CHANGING RIVER CHANNEL.—Dayton, O.—Bids are asked until June 28 for changing the channel of the Great Miami River from the railway bridge to the city line, as described in our advertising columns. Engr. in Charge, R. P. Sebold, Beckel Bldg.; O. W. Irwin, Probate Judge.

CANAL.—Tehuantepec, Mexico.—Work will be commenced in about six months, on the construction of a canal from Tehuantepec to the Suchiate River, for which the contract is held by Cheesewright, De La Barra & Furbar, 60 Haymarket, S. W., London, England, according to the "Mexican Herald."

CABLES.—Chicago, Ill.—Bids are asked until June 25 for furnishing the city with the following sets of electric cables: 50,000 ft. of No. 6 lead incased, rubber covered, electric light cable; 5,347 ft. of 16-conductor, and 200 ft. of 8-conductor lead covered cables; 2,800 ft. of 19-conductor, and 4,125 ft. of 10-conductor taped and braided cables; 6 480 ft. of 10-conductor, rubber covered, taped and braided cables; 5,000 ft., more or less, of twin conductor, rubber covered, taped and braided cable. Cash or certified check on a local bank, 10%; bond, full amount of bid. Edward Ellicott, Cy. Electrician, City Hall.

CONTRACT PRICES.

BY-PASS.—Chicago, Ill.—The drainage trustees received the following bids June 8 for substructure auxiliary work and materials for by-pass along the Chicago River, as advertised in Engineering News; all bidders of Chicago; includes 644,160 ft., B. M., grillage for wall foundation, and 7,275 cu. yds. of masonry work:

Bidder.	Wall foundation.	Brick masonry.	Concrete masonry.	Wall foundation, 31,000 lin. ft. of piling.	Stone masonry.
Lydon & Drews Co.	$21.00	$5.00	$4.75	$0.17	$8.80
FitzSimons & ConnellCo	21.00	6.00	5.00	.20	7.25
Shailer & Schniglau Co..	24.00	6.40	5.60	.21	7.25
Cogan & Pound	35.00	6.77	6.67	.25	7.00
Christie, Low & Heywrth	25.60	7.34	6.33	.37	8.40
Ross & Ross	48.00	8.00	9.00	.26	12.00
Griffiths & McDermott.	30.00	6.50	5.95	.28	7.00
Chicago Star C. & D. Co.	25.00	9.00	6.50	.25	12.50

WATER PIPE, ETC.—Chicago Junction, O.—Louis Simmeracher, Clk., informs us that the following bids were received June 9 for furnishing 550 tons of 12, 10, 8, 6 and 4-in. cast-iron water pipe, etc., as advertised in Engineering News; bid of Ohio Pipe Co. accepted:

Bidder.	Special castings, a lb., cts.	Cast iron pipe 550 tons.
Lake Shore Foundry, Cleveland, O.	1¾	$15,20
Am. Pipe & F'dry Co., Chattanooga, Tenn	2	15.18
Addyston Pipe & St'l Co., Cincinnati, O.	1⅞	14.75
Ohio Pipe Co., Columbus, O.	2	14.70

PAVING.—Cambridge, O.—We are informed that the following bids were received June 4 for furnishing the materials and for brick paving on 6-in. concrete foundation, as advertised in Engineering News; contract awarded Adams Bros.; O. M. Hoge, Cy. Engr.:

Bids Received at Cambridge, O., June 4, for Brick Paving.

Quantities.		T. J. Mulligan, Ironton, O.	Greenville Constn Co., Greenville, O.	Adams Bros., Zanesville, O.	McCourt & Davidson, Akron, O.	McCarron & Co., Detroit, Mich.	Davis & Archer, Bellaire, O.	H. Gantz, Columbus, O.
Excavation	8,749 cu. yds.	$0.19	$0.55	$0.18	$0.45	$0.19	$0.23	$0.23
Paving	21,483 sq. yds.	.79	.80	.70	.90	.58	.78	.72
Curbing, Straight	7,288 lin. ft.	.64	.60	.60	.53	.57	.50	.65
Curbing, 8-in. radius	402 " "	.95	.90	.70	.53	.65	1.18	1.07
Curbing, 2½-in. radius	126 " "	.85	1.00	.70	.53	.65	1.00	1.07
Granite crossing	144 " "	.60	1.50	.65	.55	1.37	.50	1.00
4-in. tiling	1,800 " "	.04	.04½	.05	.10	.04	.05	.10
Stone approaches	2,560 sq. yds.	.45	.55	.35	.60	1.75	.40	.40
Maintenance and grnte bnd, 5-yrs.	21,483 " "	.001	.05	...	1,353.43	...	.60	...
" " "	7,816 " "	.001	.01	...	192.13	...	...	...
Total		$25,127	$29,716	$22,435	$30,756	$23,369	$37,745	$24,305

FORGINGS.—Washington, D. C.—The navy department opened bids June 13 for 20 sets of forgings for 5-in. breech-loading rifles. The bidders were the Bethlehem Steel & Iron Co. and Midvale company, 23 cts. a lb. each; the Illingsworth company, 22 cts.; the Whitestone Forge & Construction Co., 22½ cts. The time of delivery varies from 30 to 75 days.

SEWERAGE SYSTEM.—Winooski, Vt.—C. H. Stevens, Clk. Bd. Trustees, informs us that the following bids were received June 6 for constructing the proposed system, as advertised in Engineering News:

Bids Received at Winooski, Vt., June 6, for Constructing a Sewerage System.

Bidder.	Trench, 9 ft.	Trench, Extra, 1 ft.	Rock excavation.	Sewer pipe laid, etc., 6-in.	8-in.	10-in.	12-in.	Brick sewer, 16×24-in.	18×27-in.	20×30-in.	Covers set, Manhole.	Catchbasin.	Brick laid.	6-in. sandstone.	R'ble masonry.	Total.
M. J. Fitzpatrick, Plattsburgh, N. Y.	$0.27	$0.07	$3.00	$0.04	$0.05	$0.06	$0.06	$0.29	$0.34	$0.39	$0.45	$0.45	$3.30	$0.07	$3.90	$13,312
E. H. Post, Wilkes-Barre, Pa.	.23	.20	4.00	.02	.05	.06	.06	.23	.28	.31	.50	1.00	5.60	.10	3.50	14,328
Baker, Banker & Co., Gloversville, N. Y.	.27	.175	2.50	.06	.07	.07	.08	.25	.30	.35	.80	.80	5.00	.10	4.00	14,705
H. A. Hanscom & Co., West Medford, Mass.	.25	.10	3.50	.06	.08	.08	.10	.55	.60	.70	.01	.01	8.50	.01	1.00	16,652
S. W. Frescoln, Reading, Pa.	.32	.09	2.00	.06	.08	.08	.10	.26	.30	.32	1.00	1.00	8.00	.25	7.00	17,297
M. Rosso & Co.,	.36	.14	2.50	.03	.03	.04	.05	.35	.45	.55	.50	1.00	6.00	.05	3.00	17,800
R. D. Maynard, Springfield, Mass.	.25	.08	4.00	.04	.04	.04	.04	1.25	1.35	1.45	2.00	3.00	8.00	.10	8.00	18,666
J. J. Flynn, Burlington, Vt.	.42	.15	4.50	.01	.02	.03	.03	.25	.36	.48	.50	1.00	4.50	.10	6.00	18,710
L. A. Taylor, Worcester, Mass.	.40	.08	3.50	.04	.05	.06	.07	.32	.35	.40	.50	.50	7.00	.05	3.00	18,802
F. C. Kennedy, Burlington, Vt.	.43	.155	4.55	.01	.02	.031	.031	.26	.36	.55	.51	.99	4.50	.09	6.10	19,155
Bruno & Salomone, East Boston, Mass.	.38	.12	2.50	.05	.06	.08	.09	.40	.45	.50	.25	.25	5.75	.08	2.00	18,900
D. H. Parsons, Westfield, Mass.	.3175	.10	3.00	.05	.08	.09	.10	.75	.85	1.00	.50	.50	8.00	.10	4.00	19,400
Peter Fountain, Winooski, Vt.	.435	.16	4.70	.012	.0187	.0325	.0325	.262	.3587	.5475	.50	1.02	4.55	.0925	6.125	19,438
J. W. McConnell, Brooklyn, N. Y.	.40	.27	3.00	.02	.0202	.025	.034	.30	.31	.32	1.50	2.00	5.00	.05	6.00	20,264
C. E. Trumbull & Co., Boston, Mass.	.40	.10	3.00	.10	.10	.10	.10	.38	.42	.47	.50	.50	6.00	.04	4.50	20,501
Cudgworth & Evans, Brooklyn, N. Y.	.3766	.20	3.40	.06	.06	.12	.12	.48	.54	.60	2.40	1.20	5.25	.066	6.00	20,940
Long & Little, Leominster, Mass.	.38	.20	4.00	.07	.10	.10	.10	.15	.50	.50	.50	1.00	7.00	.10	5.00	21,450
William Orlando, Belchertown, Mass.	.40	.08	4.00	.07	.08	.09	.10	.90	1.00	1.10	.25	.25	7.50	.10	6.00	22,478
G. M. Bryant, Hyde Park, Mass.	.44	.06	5.00	.10	.10	.10	.10	.60	.60	.65	.023	.023	8.50	.10	3.00	22,975
C. T. Fernald, Melrose, Mass.	.48	.20	4.00	.06	.08	.10	.12	.31	.36	.42	.10	.50	8.00	.20	2.00	24,475

METAL SUPERSTRUCTURE.—Chicago, Ill.—The drainage board received the following bids June 8 for the metal superstructure for the by-pass along the Chicago River; Jas. Reddick, Clk.; Thos. Kelly, Chn. Com.:

Bidder.	Structural steel, a lb., cts.	Portland cem. concrete, a cu. yd.	Lump sum superstructure.
Van Dorn Iron Wks, Cleveland, O.	2.25	.....	$70,700
Griffiths & McDermott, Chicago	3.0	$8.90	88,692
Warren, Roberts & Co., Chicago	2.1	7.50	89,850
Toledo Bridge Co., Toledo, O.	2.2	6.00	94,210
Universal Const'n Co., Chicago	2.13	6.20	95,623
Carnegie Steel Co., Ltd., Pittsburg.	2.25	6.00	97,095
Detroit (Mich.) Bridge & Iron Wks.	2.15	8.00	102,280
Pittsburg (Pa.) Bridge Co.	2.40	6.90	103,000
King Bridge Co., Cleveland, O.	2.5	6.25	108,900
Penn Bridge Co., Beaver Falls, Pa.	2.5	6.00	113,240
C. L. Strobel, Chicago, Ill.	2.5	8.00	118,000

SEWER PIPE.—Andover, Mass.—The commissioners received the following bids for furnishing sewer pipe; the contract was awarded to the Portland Stoneware Co.:

Bidder.	Discount: Standard.	Deep and wide locket.	Double strength
Fiske, Howes & Co.	2-ft. 82%	80%	79%
	3-ft. 80%	..	..
Geo. D. Goodrich	77½%	76%	79½%
Henry McLawlin	77½%	76%	84%
Portland Stoneware Co.	83%	80%	83%
Waldo Bros.	80%	76½%	75%
Berry & Ferguson	2-ft. 81%	78%	74%
	3-ft. 79%	..	..

BRICK PAVING.—Hagerstown, Md.—The commissioners have awarded the contract for 6,500 sq. yds. of brick paving to E. G. Buck, at $1.24 a yd. The Clearfield brick will be used.

INDUSTRIAL NOTES.

MR. W. B. REED, New York agent for the Belmont Iron Works, Philadelphia, has removed his office from the Bowling Green offices to Room 1217, 320 Broadway.

THE BALDWIN LOCOMOTIVE WORKS, Philadelphia, has an order from the Baltimore & Ohio R. R. for 15 consolidated freight locomotives with 21 × 26-in. cylinders and five with 22 × 28-in. cylinders.

THE PITTSBURG LOCOMOTIVE & CAR WORKS, Pittsburg, has an order from the Baltimore & Ohio R. R. for 10 consolidated freight locomotives with 22 × 28-in. cylinders, for use on the mountain divisions.

THE MORGAN ENGINEERING CO., Alliance, O., is reported to have a contract from the Brooks Locomotive Works, Dunkirk, N. Y., for two electric overhead traveling cranes for its new erecting shop. One is of 120 tons capacity, with two 60-ton trolleys and an auxiliary hoist of 5 tons capacity; this is said to be the largest crane for locomotive work that has been constructed. The other is a high-speed crane of 10 tons capacity, operated on a second runway, underneath the runway for the large crane.

THE NIAGARA ENGINEERING WORKS, Niagara Falls, N. Y., has purchased the property of the former Power City Foundry & Machine Co., according to report. Messrs. F. R. & A. W. French, mill engineers, are the proprietors.

THE RITER-CONLEY CO., Pittsburg, recently shipped 10 carloads of structural steel for the new power house of the Dublin Electric Tramway Co., Dublin, Ireland, the contract for which was obtained by the former company last February.

THE GAUBERT MFG. CO., 14 and 16 Church St., New York, has secured from the Metropolitan St. Ry. Co. of New York the contract for feed water heaters for the large power station now being erected at 96th St. and the East River. The first installment consists of 30,000 HP. in six heaters, horizontal type, and rated at 5,000 HP. each, which are to be placed between the low-pressure cylinders and the condensers. It is said to be the largest single order for feed water heaters ever placed in this or in any other country.

THE BROOKS LOCOMOTIVE WORKS, Dunkirk, N. Y., through its Vice-President, Mr. R. J. Gross, is reported to have orders for 38 locomotives as follows: Seven 10-wheel combined freight and passenger engines and five 6-wheel connected switching engines, for the Illinois Central R. R.; eight mastodon freight engines and three 6-wheel connected switching engines, for the Great Northern Ry., and 15 consolidation freight engines for the Louisville & Nashville R. R., being the first order ever received from this road.

THE PETERSBURG IRON WORKS, Petersburg, Va., is reported to have a contract from the United States Government for 10,000 4-in. shells and 1,200 8-in. shells; the former for use by the Navy Department and the latter for the War Department.

THE WHEELER CAR SEAT CO., 43 Cedar St., New York, has acquired the patents covering the Wheeler car seat, together with all the patents formerly owned by the Bushnell Mfg. Co., Easton, Pa. Mr. Charles Hansel, Vice-President and General Manager of the Wheeler Car Seat Co., has been appointed by the Court of Common Pleas of Northampton county, Pennsylvania, as Receiver and General Manager of the Bushnell Mfg. Co. The manu-

facturing facilities of the first-named company have been enlarged and all devices covered by the patents of the Bushnell company can be supplied. Mr. Oakleigh Thorne is President of the company and Mr. George H. Hansel is Secretary and Treasurer.

THE BERLIN IRON BRIDGE CO., East Berlin, Conn., is making extensive additions to the gas producing plant of the United Gas Improvement Co., Philadelphia. The plants are known as the 25th Ward and the Point Breeze locations. At the 25th Ward gas works a new scrubber house, 45 × 120 ft., and a purifier house, 86 × 180 ft., are being built. At the Point Breeze works a new boiler and engine-room, 220 × 55 ft.; a condenser building, 40 × 105 ft.; a purifier building, 86 × 180 ft.; a generator house, 100 × 184 ft., and a meter house, 70 × 223 ft., with additions for exhaust and valve room, are under construction. These buildings are of steel frame construction, with brick side walls and slate roofs supported on metal purlins carried by clear span trusses.

WATER-WORKS APPLIANCES.—At the annual convention of the American Water-Works Association, held at Buffalo last week, the following exhibits were made by the associate members named:

Pumps.—Holly Mfg. Co., Lockport, N. Y.; Snow Steam Pump Works, Buffalo, N. Y.; H. R. Worthington, New York city; Gould's Mfg. Co., Seneca Falls, N. Y.

Meters.—Thompson Meter Co., Brooklyn, N. Y.; Hersey Mfg. Co., South Boston, Mass.; Pittsburg Meter Co., Pittsburg, Pa.; Union Water Meter Co., Worcester, Mass.; Neptune Meter Co., New York city; National Meter Co., New York city.

Valves and Hydrants.—Michigan Brass & Iron Works, Detroit, Mich.; Rensselaer Mfg. Co., Troy, N. Y.; Viney Gate Valve Co., Philadelphia, Pa.; Eddy Valve Co., Waterford, N. Y.; Ross Valve Co., Troy, N. Y.; Plueger & Henger Mfg. Co., St. Louis, Mo.; Ludlow Valve Mfg. Co., Troy, N. Y.

Tapping Machines.—A. P. Smith Mfg. Co., Newark, N. J.; Lennox Machine Co., Marshalltown, Ia.; Payne Tapping Machine Co., Fostoria, Ia.

Miscellaneous.—Sherrerd & French, Newark, N. J., Gate Valve Inserting Machine; Lead-Lined Iron Pipe Co., Wakefield, Mass., lead and tin-lined iron pipe; H. Mueller Mfg. Co., Decatur, Ill., and Walworth Mfg. Co., Boston, Mass., corporation cocks and general supplies; Thos. Watkins, Johnstown, Pa., pipe jointer; F. M. Gow, Medford, Mass.; meter-testing device; New York Filter Mfg. Co., New York city; Fisher Governor Co., Marshalltown, Ia.; A. Heine, Evansville, Ind.; Glauber Brass & Mfg. Co., Cleveland, O.; W. J. Clark Co., Salem, O.

EXHIBITS AT MASTER CAR BUILDERS' AND MASTER MECHANICS' CONVENTIONS, SARATOGA, N. Y.

The following are the names of the railway supply houses which had exhibits of their goods at the conventions of the Master Car Builders and Master Mechanics held at Saratoga, N. Y., June 15 to 22, 1898. The list also shows the character of the goods exhibited by each:

Air Brake Hose and Rubber Goods.—Boston Belting Co., Boston, Mass.; Boston Woven Hose & Rubber Co., Boston, Mass.; Diamond Rubber Co., Akron, O.; New York Belting & Packing Co., Ltd.; New York Peerless Rubber & Mfg. Co., New York.

Brake Beams, Brake Shoes and Brake Slack Adjusters.—Allan-Morrison Brake Shoe Co., Chicago, Ill.; American Brake Shoe Co., Chicago, Ill.; Chicago Railway Equipment Co., Chicago, Ill.; Corning Brake Shoe Co., Corning, N. Y.; Monarch Brake Beam Co., Detroit, Mich.; Oval Brake Beam Co., Philadelphia, Pa.; Q. & C. Co., Chicago, Ill.

Cars, Car Roofs and Car Doors and Fixtures.—Bird & Son, F. W., East Walpole, Mass.; Edgar-Sibring Car Seal & Lock Co., Colorado Springs, Colo.; Goodwin Car Co., New York; McCord & Co., Chicago, Ill.; National Railway Specialty Co., Chicago, Ill.; Schoen Pressed Steel Co., Pittsburg, Pa.; Western Railway Equipment Co., St. Louis, Mo.

Car Heating and Lighting.—Gold Car Heating Co., New York; Safety Car Lighting & Heating Co., New York; Dressel Ry. Lamp Works, New York.

Car Seats, Car Curtains and Upholstering Materials.—Adams & Westlake, Chicago, Ill.; Bushnell Mfg. Co., Easton, Pa.; Boston Artificial Leather Co., Boston, Mass.; Burrowes Co., The E. T., Portland, Me.; Chase & Co., L. C., Boston, Mass.; Forsyth Bros. Co., Chicago, Ill.; Knitted Mattress Co., Canton Junction, Mass.; Massachusetts Mohair Plush Co., Boston, Mass.; Pantasote Leather Co., New York; Pottier & Stymus Co., New York; Yerdon, Wm., Ft. Plain, N. Y.; Wheeler Car Seat Co., Chicago, Ill.

Couplers and Draft Goods.—D. Altman, Chattanooga, Tenn.; Buckeye Malleable Iron & Coupler Co., Columbus, O.; Foster Coupler Co., Chicago, Ill.; Gould Coupler Co., New York city; Henry C. Laub, Dennison, Ia.; Michigan Malleable Iron Co., Detroit, Mich.; National Malleable Casting Co., Cleveland, O.; Peerless Coupler Co., New York, N. Y.; Railroad Supply Co., Chicago, Ill.; Pratt & Letchworth Co., Buffalo, N. Y.; Smillie Coupler & Mfg. Co., Newark, N. J.; Standard Coupler Co., New York; Washburn Coupler Co., Minneapolis, Minn.; Western Railway Equipment Co., St. Louis, Mo.; Westinghouse Air Brake Co., Pittsburg, Pa.

Gasoline Engines.—Fairbanks, Morse & Co., Chicago, Ill.; Westinghouse Machine Co., Pittsburg, Pa.

Injectors.—Hancock Inspirator Co., Boston, Mass.; Manning, Maxwell & Moore, New York; Sellers, Wm., & Co., Philadelphia, Pa.

Journal Boxes and Fittings.—Cook Cooler Co., Flint, Mich.; McCord & Co., Chicago, Ill.; National Railway Specialty Co., Chicago, Ill.; Petithomme, J. L.; Pratt & Letchworth Co., Buffalo, N. Y.

Oiling Devices.—Detroit Lubricator Co., Detroit, Mich.; Lackawanna Lubricating Co., Scranton, Pa.; McVicar & Sweet, Denver, Colo.; Rochester Automatic Lubricator Co., Rochester, N. Y.

Pneumatic Drills, Hammers, Chippers, Etc.—Chicago Pneumatic Tool Co., Chicago, Ill.; Standard Pneumatic Tool Co., Chicago, Ill.

Safety Valves and Steam Gages.—Ashton Valve Co., Boston, Mass.; Crosby Steam Gage & Valve Co., Boston, Mass.; Fairbanks Co., New York; Homestead Valve Mfg. Co., Homestead, Pa.; Jenkins Bros., New York; Manning, Maxwell & Moore, New York; Sellers, Wm., & Co., Philadelphia, Pa.; Star Brass Mfg. Co., Boston, Mass.

Track Sanders.—Henry L. Leach, North Cambridge, Mass.; Western Railway Equipment Co., St. Louis, Mo.

Trucks, Bolsters and Fittings.—American Steel Foundry Co., St. Louis, Mo.; Cloud Steel Truck Co., Chicago, Ill.; Fox Pressed Steel Equipment Co., New York, N. Y.; Simplex Railway Appliance Co., Chicago, Ill.; Standard Car Truck Co., Chicago, Ill.; Sterlingworth Railway Supply Co., Easton, Pa.; Western Railway Equipment Co., St. Louis, Mo.

Wheels and Axles.—Facer Forged Steel Car Wheel & Locomotive Wheel Co., Germantown, Pa.; Keystone Axle Co., Pittsburg, Pa.; Pratt & Letchworth Co., Buffalo, N. Y.

Miscellaneous.—Signal Lamps, Adams & Westlake, Chicago, Ill.; Gilding Machine, W. H. Coe Mfg. Co., Providence, R. I.; Turnbuckle, Cleveland City Forge & Iron Co., Cleveland, O.; Window Fixtures, A. M. Edwards, Syracuse, N. Y.; Pneumatic Window, J. C. Hood, Wilkensburg, Pa.; Cement and Filter, A. Major, New York; Flexible Steam Joint, Moran Flexible Steam Joint Co., Louisville, Ky.; Elastic Nut, National Elastic Nut Co., Milwaukee, Wis.; The Peet "Brakesman's Walk," Jas. M. Peet, Pittsburg, Pa.; Car Replacing Jacks, Pearson Jack Co., Boston, Mass.; Electric Headlight, Pyle National Electric Headlight Co., Chicago, Ill.; Air Compressor, Rand Drill Co., New York; Compound Locomotive, Richmond Locomotive Works, Richmond, Va.; Car Bearing, Universal Car Bearing Co., New York; Nut Locks, Valute Nut Lock Co., Ft. Wayne, Ind.; Varnishes, Anglo-American Varnish Co., Newark, N. J.; General Supplies, Buck Mfg. Co., St. Louis, Mo.; Boiler and Pipe Coverings, H. W. Johns Mfg. Co., New York.

CONTRACT PRICES.

WATER PIPE.—Washington, D. C.—The district commissioners received the following bids June 13 for furnishing the District with 4,000 ft. of 12-in. cast-iron water pipe, 60,000 ft. of 6-in. and 10,000 ft. of 4-in. pipe: Jas. B. Clow & Sons, $20.70 a ton for 12-in., $20.70 for 6-in., and $21 for 4-in.; American Pipe & Foundry Co., Chattanooga, Tenn., $17.10 a ton for all three sizes; M. J. Drummond & Co., $17.00 a ton for 12-in., $17.45 for 6-in., and $18.20 for 4-in.; McNeal Pipe & Foundry Co., $18.50 for 12-in., $19.00 for 6-in., and $19.50 for 4-in.

BRICK PAVING.—Lima, O.—R. H. Gamble, Cy. Engr., informs us that the following bids were received June 9 for brick paving in South Main St., as advertised in Engineering News:

Bids Received at Lima, O., June 9, for Brick Paving.

Items.	A. J. Henkel, Cincinnati, O.	M. Sullivan, Cincinnati, O.	E. J. Barr, Lima, O.	Kerlin Bros. Co., Toledo, O.	J. Wiles & Son, Akron, O.	T. J. Mulligan, Ironton, O.	H. Gantz, Columbus, O.	D. R. McArthur & Co., Kenton, O.	Jacob Spyker, Lima, O.	G. B. Herring & Son, Mansfield, O	M. G. Cain, Dayton, O.	O'Brien & De-Hurty, Elwood, Ind.
Excavation, a cu. yd.	$0.01	$0.20	$0.28	$0.25	$0.30	$0.24	$0.30	$0.24	$0.25	$0.35	$0.30	$0.24
Concrete, a sq. yd.	.50	.62	.40	.42	.67	.47	.45	.48	.51	.56	.49	.49
6 × 20-in. straight curb, a lin. ft.	.50	.67	.49	.65	.58	.54	.55	.50	.51	.57	.40	.44
6 × 20-in. circular curb, a lin. ft.	.75	.68	.70	.72	.65	.81	1.10	.60	.65	.70	.60	.88
6 × 30-in. straight curb, a lin. ft.	.60	.67	.66	.72	.65	.80	.73	.60	.57	.63	.60	.57
6 × 30-in. circular curb, a lin. ft.	1.00	.85	...	.92	.80	1.60	1.46	.60	.65	.83	.60	1.05
Catchbasins, each	15.00	15.00	18.00	25.00	20.00	15.00	15.00	15.00	15.00	15.00	12.00	12.00
Extra haul	.01	.015	.03	.02	.03	.03	.05	.05	.05	.01	.02	.10
Brick, a sq. yd. — Malvern block	...	...	.82	.78	.78	.79	.78	.66	...	.78	...	.74
Metropolitan block	.98	...	.75	.85	.84	.845	.995	...	...	.81	...	.78
Halwood block	.98	.91	.75	...	.83	.84	...	...	.66	.83	.84	...
Townsend block	.92	.90	.69	...	.77	.68	.77	.65	.67	.77	.74	...
Buckeye block	...	...	...	...	...	...	...	...	.62	...	...	...
Metropolitan special	...	...	.91	1.02	1.00	1.00	...	...	...	.96	...	.98
Brown granite	...	...	...	...	.76	.77	.82	...	...	.76	.74	...
Nelsonville block	.84	.78	...	.68	.69	.70	.69	.57	...	.69	...	.67
Blue granite	.93	...	.70	.92	.90	.91	.90	...	.68	.90	...	.91
Harris paver	...	.90	.645	.88	.73	.73	.725	.605	.62	.725	.74	.69
Wooster	...	...	...	.77	.75	...	...	...	...	.75	...	.74
Wassell	.92	.85	.69	.77	.77	.78	.77	.65	.67	.72	.74	.73
Park block	...	1.05	.83	...	...	.92	...	...	...	.91	...	.87
Park repaver	...	...	...	...	...	...	...	...	...	.88	...	...
Park brick	...	...	...	...	...	...	...	...	...	.83	...	...
McManigal block	...	.94	...	...	.78	...	...	...	...	.78	...	...
Filler, a sq. yd. — Bituminous grout	.15	...	.15	.15	.17	.15	.15	.14	.14	.20	.15	.18
Coal tar	.10	.09	.14	.15	.17	.10	.15	.13	.13	.16	.15	.18
Portland cement	.15	...	.09	.12	.15	.08	.10	.09	.09	.12	.13	.18
Murphy grout	.16	.15	.15	.15	.17	.15	.15	.15	.14	.16	.15	.18
Sand	.03	.05	.03	.05	.07	.02	.03	.03	.02	.03	.03	.04

BRICK PAVING.—Newport, Ky.—W. L. Glazier, Cy. Engr., informs us that the following bids were received June 15 for brick paving, as advertised in Engineering News; the contract was awarded John Trapp, of Dayton, Ky.:

Bids Received at Newport, Ky., June 15, for Brick Paving.

Quantities.		Van Sandt & Meeds, Cincinnati.	J. W. Sullivan, Cincinnati, O.	A. Henkle, Cincinnati, O.	Jos. Collopy, Newport, Ky.	T. C. Brown, Newport, Ky.	Jno. Trapp, Dayton, Ky.
Combined concrete curb and gutter	900 lin. ft.	$0.01	$0.65	$0.65	$0.59	$0.60	$0.64
5-in. curb curved	40 " "	.01	.70	.75	.70	.65	.64
Old curb reset	10 " "	.10	.01	.10	.25	.10	.10
Brick paving	1,700 sq. yds.	1.18	.86	.90	.92	.95	.78
Concrete foundation	1,700 cu. yds.	.70	.50	.40	.49	.50	.45
Repaving old limestone	10 sq. yds.	.10	.20	.25	.10	.01	.50
Excavation	900 cu. yds.	.01	.24	.25	.20	.20	.45
Sidewalk paving	40 sq. yds.	.20	.10	.25	.20	.20	.45
Remodeling catchbasins	4 each	22.00	6.25	10.00	16.00	20.00	15.00
Total		$3,312	$3,172	$3,095	$3,184	$3,264	$2,939

WATER PIPE.—Wallingford, Conn.—The following bids were received June 16 for furnishing 6-in. cast-iron water pipe: Warren Foundry & Machine Co., New York, 3,000 ft. 6-in. at $19.60 a ton of 2,240 lbs. f. o. b. cars at Wallingford; M. J. Drummond & Co., New York, $17.50 a ton of 2,000 lbs. and $19.60 a gross ton of 2,240 lbs. f. o. b. cars at Wallingford; McNeal Pipe & Foundry Co., Burlington, N. J., 3,000 ft., $17.70 net ton of 2,000 lbs. f. o. b. cars at Wallingford; Chattanooga Foundry & Pipe Works, Chattanooga, Tenn., 3,000 ft., $17.40 a ton of 2,000 lbs. f. o. b. cars at Wallingford.

PARK WORK.—New York, N. Y.—The following bids were received by the department of parks June 9:

Bids Received by the Department of Public Parks, New York, N. Y., June 9.

Quantities.		A. Kelly & Co., Amsterdam Ave. and 120th St.	John Slattery, 368 Park Ave.	Cunningham & Kerns, New York.	W. H. Masterson, 231 E. 86th St. (lowest bidder.)	Kelly & Kelley, St. Paul Building, New York.	Christopher Nally Co., 102 West 81st St.	W. J. Moore, 1 West 68th St.	P. J. McQuade, 201 West 89th St.
Earth excavation	800 cu. yds.	$0.90	$0.50	$0.50	$1.50	$0.80	$0.79	$1.00	$0.35
Rock excavation	75 " "	1.50	3.00	1.50	1.00	2.00	3.50	4.00	1.75
Mold in place	150 " "	2.50	1.00	1.40	1.00	1.50	1.60	1.50	1.50
Rock asphalt work	6,400 sq. ft.	.25	.15	.25	.14	.40	.29	.22	.24
Gravel and trap-rock pavement	500 sq. yds.	1.34	1.60	1.50	1.60	1.10	1.45	1.50	1.95
5-in. bluestone curb, fur. and set	455 lin. ft.	.90	.70	.90	.78	.80	.77	1.10	.90
Old curb taken up and reset	50 " "	.20	.10	.15	.10	.30	.35	.10	.08
New bluestone flagging fur. and laid	200 sq. ft.	.23	.20	.21	.22	.25	.30	.21	.26
Old flagging taken up and relaid	500 " "	.05	.03	.03	.03	.08	.10	.05	.05
Bluestone steps	160 lin. ft.	.90	1.50	.90	.85	1.00	.95	.70	1.20
Bluestone checks	55 " "	.75	.70	.90	.85	1.00	.85	.70	1.00
Road basins (complete)	38 each	49.00	35.00	29.00	32.00	60.00	40.00	40.00	35.00
Receiving basins (complete)	12 "	85.25	38.00	133.00	115.00	1.20	75.00	150.00	140.00
15-in. stoneware drain pipe	370 lin. ft.	1.40	1.75	.95	.70	.80	1.69	1.00	120.00
12-in. " " "	400 " "	1.00	1.10	.85	.60	.80	.66	1.00	1.00
10-in. " " "	300 " "	.60	.75	.85	.50	.80	.50	.75	.80
8-in. " " "	600 " "	.50	.65	.60	.40	.45	.40	.75	.75
6-in. " " "	230 " "	.40	.50	.50	.40	.40	.20	.75	.55
Rubble masonry in cement mortar	20 cu. yds.	6.00	3.35	3.00	4.00	6.00	6.00	3.00	4.00
Sod furnished and laid	8,000 sq. ft.	.03½	.03	.03½	.03	.02	.05	.02	.05

SEWERAGE SYSTEM.—Marion, Ind.—John Watts, Cy. Clk., informs us that the following were the two lowest bids for each work submitted June 7 for constructing the proposed system, as advertised in Engineering News; there were 15 bidders for each work; the totals of all the bids were given in our last issue; L. M. Overman, Cy. Engr.:

Lowest Bids Received at Marion, Ind., June 7, for Constructing a Sewerage System.

Bidder	Work, a ft.	Stone masy. (a cu. yd.)	Concrete (a cu. yd.)	Manholes, each.	Catchbasins, each.	Pipe 8-in.	10-in.	12-in.	15-in.	18-in.	20-in.	24-in.	Total.
Brick sewer.													
Greenville (O.) Const'n Co.*	$2.45	$6.00	$4.00	$22.00	$25.00	$0.45	$0.50	$0.62	$0.75	$1.25	$1.75	$2.50	$19,720
Daniel Delaney, Joliet, Ill.	2.46	5.00	7.00	18.00	27.00	.50	.60	.65	.70	1.00	...	1.00	19,775
Sanitary sewer.													
McCourt & Davidson, Akron, O.*	.90	5.00	5.00	20.00	30.00	.25	.35	.45	.55	.65	...	...	16,008
Kalamazoo (Mich.) S. & C. Co.	.93	5.00	5.00	20.00	33.00	.50	.60	.70	.80	.90	...	...	16,965
Central district.													
Kalamazoo (Mich.) S. & C. Co.*	.57	5.00	5.00	25.00	28.00	.40	.50	.60	.70	.80	.90	...	3,396
Miller & Williams, Marion, Ind.	.68	3.00	1.60	12.00	15.00	.08	.11	.13	.18	.24	.32	...	3,552

*Accepted.

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